

Cornelis Cyrinus (“Cees”) van Leeuwen

Positions held

Current

April 2013 – present

Honorary Professor, University of Kaiserslautern, Germany

October 2011 – present

Chair Professor, KU Leuven, Belgium,

Emeritus since 1-10-2022

Previous

April 2000 – April 2012

Laboratory Head, RIKEN BSI, Japan

March 2000 – April 2004

Research Full Professor, University of Sunderland, UK

(on secondment April 2001-2004)

January 1988 – February 2000

Assistant Professor, University of Amsterdam, NL

January 1988 – December 1989

Assistant Professor, RU Groningen, NL

September 1983 – December 1987

Research Fellow, University of Nijmegen, NL

Visiting Scholar

2007 – 2008

Kwansei Gakuin, Japan

2005, 2022

ECONA, Sapienza, University of Rome, Italy

2004 – 2011

University of Sunderland, UK

Education

PhD 1989

University of Nijmegen, Social Sciences

MA 1986

University of Nijmegen, Philosophy of Science

M.Sc. 1983

University of Nijmegen, Experimental Psychology

Scientific Affiliations

Society for Complex Systems in Cognitive Science

International Society for Psychophysics

Psychonomic Society

Research Interests

Visual perception, Consciousness, Complex Adaptive Systems, Brain Dynamics

Leadership/Administration

- 2013-present **Honorary Professorate**
Position: awarded as part of an initiative to develop a graduate school ("Graduiertenkolleg") in Cognitive Science based in the departments of Social Science, Information Sciences, and Biosciences at the TU Kaiserslautern
Responsibilities: advising on strengthening the research infrastructure of the departments and help preparing the program for a Graduate School
Achievements: <https://www.sowi.uni-kl.de/en/study/uebersicht-und-studienangebote/cognitive-science/seite>
- 2011-2017 **Odysseus Research Chair**
Position: research full professor, awarded chair status as top-ranking proposal in an open call endowed with a 6.7 M US\$ grant (non-renewable), contributed 100 % by the Flemish Organization for Science, FWO
Responsibilities: scientific leadership to a team of 6 research scientists, 6 graduate students, and technical staff; administrative duties as part of the faculty, internal and external representation
Achievements: transferred a research laboratory and its staff from Japan to Europe; maintained, extended, and led an international, interdisciplinary team of researchers (2011-2019), participated as co-PI in a successful bid for an 8 M US\$ renewable grant by a consortium of researchers led by Prof. Johan Wagemans
- 2000-2011 **Laboratory Head**
Position: Five-year contract renewable subject to evaluation (max 15 years)
Responsibilities: leading a research laboratory with an annual research budget of 0.5 M euro, providing an innovative and interdisciplinary research program with the highest level of scientific output and visibility; scientific leadership to a team of 15 research scientists and technical staff; strategic planning, staff recruitment, selection, and evaluation, conflict resolution, internal and external representation
Achievements: Recruited and led an international, interdisciplinary team of researchers; maintained a network of international collaborations; founded an international learned society and became its first president.
- 2000-2004 **Research Full Professor**
Responsibilities: Line managing the research activities of the department; Conducting and leading research projects
Achievements: Initiated and completed an expansion of the team, recruited 7 academic staff (a full professor, a principal lecturer, and five (senior)-lecturers; Mentored existing staff successfully to enhance their research activity and output, supervised two successful bids for internal promotion of lecturers to Reader positions. Established three research laboratories, including an Eye tracking and an EEG facility; Prepared the submission of Unit of Assessment 13 (psychology) for the 2001 Research Assessment Exercise
- 1988-2000 **Assistant Professor**
Responsibilities: teaching (50%), research (40 %), and administration (10%)
Achievements: Led the initiative to create a Master's Program in Cognitive Science (initially called "Computational Psychology") that still exists to date.

Evidence of Esteem

Honors, Awards, and Press Coverage

2022

- An international conference in my honor was held at KU Leuven on the occasion of reaching emeritus status (Oct).

2020

- Resigned as editor of Philosophical Psychology
<https://dailynous.com/2020/06/24/controversy-philosophical-psychology-leads-editors-resignation/>

2017

- Research topic: "Consciousness: from assessment to rehabilitation," shortlisted for the US\$ 100,000 [First Annual Spotlight Award](#).
- Six degrees of separation: why it's a small world after all. Science Bulletin
<https://sciencebulletin.org/six-degrees-of-separation-why-it-is-a-small-world-after-all/>

2016

- van Leeuwen (2015) #44 on Frontiers' 100 most downloaded papers
<http://blog.frontiersin.org/2015/12/22/spotlight100/>
- When brain Waves go traveling
<http://blogs.discovermagazine.com/neuroskeptic/2016/03/14/brain-waves-traveling/>

2015

- Could traveling waves upset cognitive neuroscience?
<http://blogs.discovermagazine.com/neuroskeptic/2015/07/09/could-travelling-waves-upset-cognitive-neuroscience/#.VZ9x4fI5KE>

2013

- *Honorary Professorship*, TU Kaiserslautern
- Science Daily <http://www.sciencedaily.com/releases/2013/03/130320115111.htm>; Nu.nl: <http://www.nu.nl/wetenschap/3376090/rol-van-hersengebieden-wordt-overschat-.html>;
- Science Codex:
http://www.sciencecodex.com/brain_waves_challenge_areaspecific_view_of_brain_activity-108921; radio interview De Sndard, October 31. De jacht op het wiskundigen. (in Dutch).
http://www.standaard.be/cnt/dmf20131030_00817768

2012

- Huffington Post lead article [What Happens When the IQ Test Taker Becomes the IQ Test Constructor?](#)
- Psychology Today: <http://www.psychologytoday.com/blog/beautiful-minds/201202/both-convergent-and-divergent-thinking-are-necessary-creativity>

2011

- *KU Leuven/Government of Flanders*: BOF/ZAP research professor mandate offer in connection to the Odysseus grant (accepted)

2011

- *University of Hull*, *Chair in Psychology*, offer (declined)

2007

- [Brain power- breakthrough in mathematical modelling](#), University of Leicester Press Release, September.
- [Alpha Galileo](#), The world's leading resource for European research news, September.
- [Vision requires flexibility](#), Special Feature of RIKEN BSI News, a quarterly on research highlights, Vol. 36, July.
- How the brain gets its message across *Research feature of the month* in RIKEN News, April. Institute-wide monthly leaflet on research highlights discusses Gong & van Leeuwen (2007).

- *Wolfgang Metzger Award* issued by the International Society for Gestalt Theory and its Applications. The prize is given biennially to reward a scientific paper (in German or English) that contributes to the research or the application of Gestalt theory in the physical sciences, the humanities, the social sciences, the economic sciences, or other fields of human study. The paper can deal with a subject from psychology, medicine, architecture, or any other field of research or application. The award was given for van Leeuwen (2007a), see publications.

2006

- *Research Encouragement Award* for a paper presented at the Society of Instrument and Control Engineers for presentation and research achievement: H. Nakatani & C. van Leeuwen (November 18, 2006) "Blinking and perceptual switching"

2005

- *IEICE Human Communication Award* for a paper presented at HCS 2005, Waseda university: Tamura, K. et al. (2005). Towards effective spatial navigation systems for pedestrians". IEICE, Human Communication Group (HCS 2005), 104, 59-64, Tokyo, Japan. (in Japanese)
- *Best Session Paper and Presentation Award* The American Control Conference, Portland, Oregon (Automotive Applications), June 2005 to Tyukin et al. (2005).

Major Grants and Research Support

2015-2022	Methusalem Grant, Euro 500.000 / y. Gestalts in vision, art and autism. Principal Investigator: Johan Wagemans, Co-principal Investigators: Raymond van EE, Jan Koenderink, Cees van Leeuwen. Sponsor: Flemish government (FWO).
2011-2017	Odysseus Grant, Euro 4.5 M Title: Squaring the Triangle: visual experience, information processing, and the brain, Duration 5 years, Principal Investigator: Cees van Leeuwen, Sponsor: Flemish government (FWO).
2000-2012	Japanese Government (RIKEN): A budget totaling US\$ 8M for a research lab and staffing at the RIKEN Brain Science Institute. Principal Investigator: Cees van Leeuwen

Current and Past Research Collaborations

TU Kanpur, India (Prof. N. Srinivasan); Bernstein Center Freiburg (Profs. Tonio Ball and Alexander Schulze-Bonhage); Laboratory for Human Brain Dynamics, Cyprus (Prof. A. Ioannides), Illinois State University (Prof. S. Jordan); University of Indiana Bloomington (Prof. O. Sporns); FZ Jülich, D. (Prof. Markus Diesmann; Prof. S. Grün), TU Kaiserslautern, D. (Prof. T. Lachmann); U. Fribourg, Switzerland (Prof. G. Plomp); U Leicester, UK (Prof. I. Tyukin); Liverpool Hope U, UK (Prof. G. Paramei; prof. M. Ziessler); Nihon University, Jp (Prof. T. Hoya); U of Roma La Sapienza, It (Em. Prof. M. Olivetti-Belardinelli; Prof. A. Raffone); SALK institute (dr. S. Gepshtein), U of Sydney, AU (Dr. P. Gong); Queensland Brain Institute, AU (Prof. M. Breakspear); U of Virginia (Em. Prof. M. Kubovy); Weizmann Institute of Science (Amiram Grinvald †)

Service to the profession**Learned Societies**

2009-2016 Founding President, Society for Complex Systems in Cognitive Science
 2007-2010 Vice-president, International Society for Psychophysics

Editorships

2000-2020 Editor, *Philosophical Psychology*, together with W. Bechtel until 2018, since 2019 together with M. Herschbach
 Associate Editor 1995-1999, Member of Editorial Board, 1990-1995 Taylor & Francis, www.tandf.co.uk/journals/routledge/09515089, ranked 13th on <http://mnemosynosis.livejournal.com/31341.html> Scirev score: very good (4.3/5).
 2001-present Associate Editor, *Cognitive Processing*
 Springer Verlag, www.springer.com/110966 Scirev score: very good (4.0/5).
 2007-present Member Editorial Board, *Cognitive Neurodynamics*
 Springer Verlag, www.springer.com/11571
 2012-present Review Editor, *Frontiers in Computational Neuroscience*
http://www.frontiersin.org/computational_neuroscience

Manuscript Reviewer

Acta Psychologica, Advances in Difference Equations, American Journal of Psychology, Attention, Perception & Psychophysics, Behaviormetrika, Bioinformatics, Brain Research, Brain Topography, Bulletin of Mathematical Biology, Cerebral Cortex, Chaos, Cognition, Cognitive Processing, Cognitive Science, Cognitive Systems Research, Communications in Nonlinear Science and Numerical Simulation, Computational and Mathematical Methods in Medicine, Connection Science, Cortex, Entropy, Erlbaum (monographs and edited volumes), European Journal of Cognitive Psychology, European Journal of Neuroscience, The European Physical Journal, European Journal of Physics B, Experimental Brain Research, Frontiers in Computational Neuroscience, Frontiers in Psychology; Frontiers in Systems Neuroscience, Gestalt Theory, Heliyon, IEEE Transactions on Automatic Control, IEEE Transactions on Neural Networks and Learning Systems, IEEE Transactions on Robotics, International Journal of Neural Systems, International Journal of Physical Sciences, Journal for General Philosophy of Science, Journal of Applied Social Psychology, Journal of Experimental Psychology: Human Perception and Performance, Journal of Cognitive Neuroscience, Journal of Computational Neuroscience, Journal of Consciousness Studies, Journal of Engineering and Computer Innovations, Journal of Health Education Research & Development, Journal of Integrative Neuroscience, Journal of Mathematical Psychology, Journal of Neurophysiology; Journal of the Royal Society Interface; Journal of Theoretical Biology; Journal of Vision, Mathematical Problems in Engineering, Mind & Matter, Nature Communications, Nederlands Tijdschrift voor Psychologie, Network: Computation in Neural Systems, Neural Networks, Neuroinformatics, Neuroscience & Biobehavioral Reviews, Neuroscience Research; Neurolmage; Nonlinear Dynamics, Psychology and Life Sciences, Open Psychology, Pattern Recognition Letters, Perception, Perception & Psychophysics, Philosophical Psychology, Philosophical Proceedings of the Royal Society; Physical Review Letters, Physical Review E, Physics Letters A, Physiological Measurement, PLoS Computational Biology, PLoS ONE, PNAS, Progress in Mathematical Psychology, Psychologie & Maatschappij, Psychological Research/Psychologische Forschung, Psychological Review, Psychonomic Bulletin & Review, Reading & Writing, Springer (edited volume series), Scientific Reports, Symmetry, Systems & Control Letters, Taylor & Francis (journal proposals), Theory & Psychology, TOPOI, Zeitschrift für Psychologie

Award Committees

2021 Metzger prize, Member of the jury
 2012-2015, Spinoza Prize (NL), Member of the jury
 1994-present, Japan Prize, official nominator JP08493

Review Committees

Australia	U Sydney, 2016, 2018;
Australia	U Newcastle, 2000
Belgium	FWO (Flanders Science Foundation), 2001, 2002, 2009, 2011, 2012
German/Israel	German-Israeli foundation for research and development, 2006, 2011
German	Deutsche Forschungsgemeinschaft, 2012, 2013, 2014, 2017, 2020, 2022
Emirates	UAEU, Tenure committee, 2019
EU	ERC 2018; 2022; 2023
International	HFSP, 2021
Japan	Member, NRV review panel, VISIOME-project, 2003-2011
New Zealand	Centre for Neuroinformatics and brain study, Auckland U of Technology, 2003-2010
The Netherlands	NWO (Dutch Science Foundation), 2001, 2002, 2010;
The Netherlands	U Groningen, Promotion committee, 2019
Switzerland	EPF Lausanne, 2015
UK	EPSRC, 2005-present
UK	Leverhulme Trust, 2013
USA	NSF, 2002, 2004

Organization of Scientific Meetings

2016 NeuroCog-2016, Leuven BE (with Hans op de Beeck). Invited speakers: James Haxby, Philippe Schyngs, Birte Forstmann, Sam Schwarzkopf.

2009 SCSCS-09, Inaugural conference of the Society for Complex Systems in Cognitive Science, Amsterdam, NL (keynote: Walter Freeman III)

2007 Psychophysics & Neuroscience, RIKEN BSI, international symposium together with Yoko Yamaguchi, Wako-shi, Japan (keynote: Scott Makeig)

2002 Inattentional Blindness, international symposium together with Shun-nan Yang (invited participants: G. McConkie, R. Rensink, D. Simons, F. Vitu, and others)

1998 Perceptual organization International Workshop, Amsterdam, NL (invited participants: R. Kimchi, M. Kubovy, S. Palmer, J. Wagemans, and others)

1995 Perceptual and Intentional Dynamics, International Workshop, Amsterdam, NL (invited participants: H. Haken, H. Hock, S. Kelso, S. Link, C. Michaels, G. Schöner, J. Townsend, and others)

International Program Committees

ICSC-2021	International Conference on Spatial Cognition, Rome, Italy
IPCS-2021	International Conference on Spatial Cognition, Riga, Latvia
ECVP-2019	European Conference on Visual Perception, Leuven, Belgium
ICSC-2018	International Conference on Spatial Cognition, Rome, Italy
ICSC-2015	International Conference on Spatial Cognition, Rome, Italy
ICSC-2012	International Conference on Spatial Cognition, Rome, Italy
ECVP-2012	European Conference on Visual Perception, Alghero, Italy
ICCN-2011	3rd International Conference on Cognitive Neurodynamics, Hokkaido, Japan
ECVP-2011	European Conference on Visual Perception
Chaos-2009	2 nd IFAC Conference on Analysis and Control of Chaotic Systems, London UK
CSC-2009	International Conference on Spatial Cognition, Rome, Italy

GTA-2009	16th Scientific Convention of the society for Gestalt Theory and its Applications, Osnabrück, Germany
ICSC-2008	International Conference on Spatial Cognition, Rome, Italy
ICCN-08	International Conference on Cognitive Neurodynamics, Shanghai, China
Cogsci-2007	29 th Annual Conference of the Cognitive Science Society, Nashville TN
Chaos-2007	1 st IFAC Conference on Analysis and Control of Chaotic Systems, Reims, France
CCN-2007	International Conference on Cognitive Neurodynamics, Shanghai, China
INCINCO-2007	4 rd International Conference on Informatics in Control, Automation and Robotics, Setubal, Pt
Cogsci-2006,	28 th Annual Conference of the Cognitive Science Society, Vancouver, CA
INCINCO 2006	3 rd International Conference on Informatics in Control, Automation and Robotics, Setubal, Pt
Chaos-2006	1 st IFAC Conference on Analysis and Control of Chaotic Systems, Reims, France
INCINCO 2005	2 nd International Conference on Informatics in Control, Automation and Robotics, Barcelona, Sp
ISNN-2005	International Symposium on Neural Networks, Chongqing, China
ICONIP-2002	International Conference of Neural Information Processing, Singapore

Institutional Service

2011-present	Member or President on more than 20 institutional or ad hoc committees
2010-2012	Member , Academic Council, BSI
2008	Member , Organization Committee BSI Summer School
2003	Member , Organization Committee BSI annual Retreat
1995-2000	Team Leader , Cognitive Science/Computational Psychology <i>Achievements:</i> Created an interdisciplinary Master's program in Computational Psychology and coordinated the teaching activities for an initial five-year period. The program was later renamed to Cognitive Science and still exists to date.
1989-1993	Secretary , Department of Psychonomics Executive Council Second in line responsible for management of a team of 30 academic staff
1989-1990	Team leader (ad interim), Department of Psychonomics <i>Achievements:</i> Line managed the teaching activities for a team of 30 academic staff.

Community Service

2007	Embassy of the EU in Japan: scientific advice on a questionnaire aimed at European research workers in Japan
2006	Hosted the Ambassador of the Netherlands on a visit to the RIKEN
2006	Hosted a delegation of German journalists on a visit to the RIKEN on behalf of the (Japanese Ministry of Science and Education (MEXT).
2006	Hosted a delegation of One North East, the Regional Development Agency (RDA) covering North East England, on a visit to the RIKEN
2001	Presented a position paper and participated in a discussion panel at a symposium organized by MEXT (Japanese ministry of education) on academic reform in Japan
1989	Advised on the situation on Neural Network Research in the Netherlands on behalf of the Japanese Ministry of Industry and Technology (MITI)

Mentoring, Teaching

Post-doc mentor

Alumni with academic careers (current or highest-level position):

Franco Delogu (Associate Professor, Lawrence Tech, MI); Antonino Esposito (Asst Prof. LUMSA, Rome), Tomer Fekete (Research scientist, Ben-Gurion University of the Negev, IL); Sergei Gepshtein (Principal Investigator, Salk institute, CA); Tetsuyo Hoya (Associate Prof, Nihon U, Japan); Pulin Gong (Senior Lecturer, U. Sydney, Au); Junji Ito, Staff Scientist Forschungszentrum Jülich, INM-6; Thomas Lachmann (Chair and Dean, TU Kaiserslautern, Germany); Hironori Nakatani (Associate Professor, Tokai University, Japan); Massimiliano Palmiero (Assistant Professor, L'Aquila, It); Gijs Plomp (Associate Professor, U of Fribourg, Ch); Antonino Raffone (Associate Professor, U. Rome La Sapienza, It); Erik Steur (Assistant Professor TU Delft, NL); Ivan Tyukin (Professor, U. Leicester, UK); Shun-Nan Yang (Associate Professor, Pacific University, OR)

Ph.D. / M.Sc. advisor

Alumni with academic careers (current or highest-level position):

Maartje Aukes (Postdoc, U Utrecht, NL); Daan van den Berg (Lecturer, UvA, NL); Anna Bosman (Professor U Nijmegen, NL); Stasja Draisma, (Assistant Professor, TU Twente, NL); Jose Herrero (Assistant Professor, Feinstein Institute, New York, Menno Hogeboom (†, Postdoc, U Tokushima, Japan); Saskia Jaarsveld (Privatdozent, TU Kaiserslautern, Germany); Gunjan Khera Srivastava (Assistant Professor, UAE University, Al Ain); Marjolein Luman (Associate Professor VU Amsterdam, NL); Ilias Rentzeperis (Postdoc, Berkeley, CA); Mark Steyvers (Professor, UC Irvine, CA); Dirk Smit (Principal Investigator, AMC, Amsterdam, NL); Andreas Schmitt (Postdoc, U. Oldenburg, Germany); John F. Stins (Assistant Professor, VU Amsterdam, NL); Ilse M. Verstijnen (Assistant Professor, RU Utrecht, NL); Tina Weis (Research Fellow, U. Oldenburg, Germany)

Teaching since 2000 (in English, Dutch, or German)

2020-2022 Cognitive Neuroscience (3rd year B.Sc.)
 2016-2022 Advanced Research Methods in Cognitive Neuroscience (M.Sc.)
 2013-2022 Advanced Topics in Perception and Action, KU. Leuven (M.Sc.)
 2012-2022 Advanced Topics in Psychonomic Science, KU. Leuven (M.Sc.)
 2010 Theoretical Psychology, Sapienza, U of Rome, (M.Sc. and Ph.D.)
 2008, 2009 Theoretische Psychologie TU Kaiserslautern, (M.Sc.)
 2008 Philosophical Psychology, Kwansei Gakuin, Osaka (M.Sc. and Ph.D.)

Teaching 1988-2000 (in Dutch or English)

1995-2000 Cognitive psychology, University of Amsterdam (1st year B.Sc.)
 1989-200 Perception & Psychophysics, University of Amsterdam (3rd year B.Sc.)
 1989-200 Computational psychology, University of Amsterdam (M.Sc.)
 1995 Neuropsychology, University of Amsterdam (M.Sc.)
 1989-1990 Research Methods, University of Amsterdam (M.Sc.)
 1989-2000 Theoretical Psychology, University of Amsterdam (M.Sc.)

Scientific Production

Ranking

H-index = 47 (Google Scholar). Journal Impact Factors (IF) are from the year of publication or, incidentally, from the nearest year an IF for the journal was available. Co-authors under my supervision at the time the research was conducted are printed in boldface.

Peer-reviewed journal publications

2023

1. **Esposito, A.**, **Chiarella, S.G.**, Raffone, A.; **Nikolaev, A.R.**, & van Leeuwen, C. (2023). Perceptual bias contextualized in visually ambiguous stimuli. *Cognition*, in press. **IF 3.65**
2. **Solfo, A.**, & van Leeuwen, C. (2023). A Bayesian classifier for fractal characterization of short behavioral series. *Psychological Methods*, in press. **IF 10.9**

2022

3. **Duman, I.**, **Ehmann, I.S.**, **Gonsalves, A.R.**, **Gultekin, Z.**, **Van den Berckt, J.**, & van Leeuwen, C. (2022). The No-Report Paradigm: A revolution in consciousness research? *Frontiers in Human Neuroscience*, <https://doi.org/10.3389/fnhum.2022.861517> **IF 3.17**
4. **Rentzeperis, I.**, **Laquitaine, S.** & van Leeuwen, C. (2022). Adaptive rewiring of random neural networks generates convergent-divergent units. *Communications in Nonlinear Science and Numerical Simulation*, 107, 106135. **IF 4.26**
5. **Haqiqatkah, M.H.** & van Leeuwen, C. (2022). Adaptive rewiring in non-uniform coupled oscillators. *Network Neuroscience*, 6 (1), 90–117. https://doi.org/10.1162/netn_a_00211 **IF 4.64**
6. **Niu, H.**, van Leeuwen, C., Hao, J., Wang, G., & Lachmann, T. (2022). Multimodal natural human computer interfaces for computer aided design: a review paper. *Applied Sciences*, 12, 6510. <https://doi.org/10.3390/app12136510> **IF 2.83**
7. **Wang, L.**, & van Leeuwen, C. (2022). Problem type and externalization in problem solving. *PsyCH Journal*, in press. **IF 1.51**

2021

8. **Nobre. A.**, **Nikolaev, A.**, Gauer, G., van Leeuwen, C., & Wagemans, J. (2021). Effects of temporal expectations on the perception of motion Gestalts. *Journal of Cognitive Neuroscience*, 33 (5), 853–871. https://doi.org/10.1162/jocn_a_01686. **IF 3.10**
9. **Rentzeperis, I.** & van Leeuwen, C. (2021). Adaptive rewiring in weighted networks shows specificity, robustness, and flexibility. *Frontiers in Systems Neuroscience*, 15, DOI=10.3389/fnsys.2021.580569. **IF 3.29**

2020

10. **Calvo Tapia, C.**, Makarov, V., & van Leeuwen, C. (2020). Basic principles drive self-organization of brain-like connectivity structure. *Communications in Nonlinear Science and Numerical Simulation*, 82, 105065. **IF 4.26**.
11. **Meghanathan, R.N.**, van Leeuwen, C., **Giannini, M.**, & **Nikolaev, A.R.** (2020). Neural correlates of task-related refixation behavior. *Vision Research*, 175, 90–101. **IF 2.09**
12. **Nikolaev, A.R.**, Beck, gA.-K., **Theobald, S.**, Lachmann, T., & van Leeuwen, C. (2020). Factoring in the spatial effects of symbolic number representation. *Biological Psychology*, 149, 107782. **IF 2.63**
13. **Rentzeperis, I.** & van Leeuwen, C. (2020). Adaptive rewiring evolves brain-like structure in weighted networks. *Scientific Reports*, 10, Art. No. 6075. **IF 4.12**

2019

14. **Alexander, D.M.**, Ball, T., Schulze-Bonhage, A., & van Leeuwen, C. (2019). Large-scale cortical travelling waves predict future localized cortical signals. *PLoS Computational Biology*, 15(11), e1007316. **IF 4.43**
15. **Hellrigel, S.**, **Jarman, N.**, & van Leeuwen (2019). Adaptive rewiring of weighted networks. *Cognitive Systems Research*, 55, 205–218. **IF 2.03**
16. **Meghanathan, R.N.**, **Nikolaev, A.R.** & van Leeuwen, C. (2019). Refixation patterns reveal memory encoding strategies in free viewing. *Attention, Perception, & Psychophysics*, 81, 2499–2516. **IF 1.68**

17. **Nakatani, C. Ganschow, B., & van Leeuwen, C.** (2019). Long-term dynamics of mind wandering: ultradian rhythms in thought generation. *Neuroscience of Consciousness*, 2019(1), niz007, <https://doi.org/10.1093/nc/niz007> **IF 2.81**
18. **Nikolaev, A.R. & van Leeuwen, C.** (2019). Scene buildup from latent memory representations across eye movements. *Frontiers in Psychology*, 9, 2701. **IF 2.09**
19. **Schmitt, A., Lachmann, T., & van Leeuwen, C.** (2019). Lost in the forest? Global to local interference depends on children's reading skills. *Acta Psychologica*, 193, 11-17. **IF 2.03**
20. **Solfo, A., Luccio, R., & van Leeuwen, C.** (2019). Agency in sensorimotor coordination tasks: Modeling Spizzo's effect. *Cognitive Systems Research*, 55, 219–244. **IF 3.52**
21. **van Leeuwen, C.** (2019). The reasonable ineffectiveness of biological brains in applying the principles of high-dimensional cybernetics Commentary on "The unreasonable effectiveness of small neural ensembles in high-dimensional brain" by Alexander N. Gorban et al." *Physics of Life Reviews*, <https://doi.org/10.1016/j.plrev.2019.03.005>. **IF 13.78**

2018

22. **Fekete, T.; Van der Cruys, S; Ekroll, V., & van Leeuwen, C.** (2018). In the interest of saving time - a critique of discrete perception. *Neuroscience of Consciousness*, 1, <https://doi.org/10.1093/nc/niy003>.
23. **Fekete, T., Nikolaev A.R., De Knijf F., Zharikova, A., & van Leeuwen, C.** (2018). Multi-electrode alpha tACS during varying background tasks fails to modulate subsequent alpha power. *Frontiers in Neuroscience-Perception Science*, 12, 482. **IF 3.88.**
24. **Fekete, T., Omer, D.B., O'Hashi, K., Grinvald, A., van Leeuwen, C., & Shiki, O.** (2018). Critical dynamics, anesthesia and information integration: lessons from multi-scale criticality analysis of voltage imaging data. *NeuroImaging*, 183, 19-933. **IF 5.43**
25. **Giannini, M., Alexander, D.M., Nikolaev, A.R., & van Leeuwen, C.** (2018). Large-scale traveling waves in EEG activity following eye movement. *Brain Topography*, 31, 608-622. **IF 3.39**
26. **Solfo, A. & van Leeuwen, C.** (2018). From adult finger tapping to fetal heart beating: Retracing the role of coordination in constituting agency. *Topics in Cognitive Science*, 10, 18–35. **IF 2.00**
27. **Nikolaev, A.R., Meghanathan, R.N., & van Leeuwen, C.** (2018). Refixation control in free viewing: a specialized mechanism divulged by eye-movement related brain activity. *Journal of Neurophysiology*, 120, 2311–2324. **IF 2.89**
28. **Van Humbeeck, N., Meghanathan, R.N., Wagemans, J., van Leeuwen, C., & Nikolaev, A.R** (2018). Pre-saccadic EEG activity predicts visual saliency in free-viewing contour integration. *Psychophysiology* 55, e13267 **IF 3.38**
29. **Weis, T., Theobald, S., Schmitt, A., van Leeuwen, C., & Lachmann, T.** (2017). There's a SNARC in the size congruity task. *Frontiers in Psychology*, 9, 1978. **IF 2.09**

2017

30. **Chehelcheraghi, M., Nakatani, C., & van Leeuwen, C.** (2017). Analysis of an interneuron Gamma mechanism for cross-frequency coupling. *Mathematical Modelling of Natural Phenomena*, 12, 53-73. **IF 0.81.**
31. **Chehelcheraghi, M., van Leeuwen, C., Steur, E., & Nakatani, C.** (2017). A Neural Mass Model of Cross Frequency Coupling. *PloS One*, 12, e0173776. **IF 3.23**
32. **Jarman, N., Steur, E., Trengove, C., Tyukin, I., & van Leeuwen, C.** (2017). Self-organisation of small-world networks by adaptive rewiring in response to graph diffusion. *Scientific Reports*, 7, 13518. **IF 4.53**
33. **O'Hashi, K., Fekete, T., Deneux, Th., van Leeuwen, C., & Grinvald, A.** (2017). Interhemispheric synchrony in spontaneous activity states down to the cortical column level. *Cerebral Cortex*, DOI: 10.1093/cercor/bhx090. **IF 8.25**
34. **Palmiero, M., Nakatani, C., & van Leeuwen, C.** (2017). Visual creativity across cultures: A comparison between Italians and Japanese. *Creativity Research Journal*, 29, 86-90. **IF 0.84**
35. **Seidkhani, H., Nikolaev, A.R., Meghanathan, R.N., Pezeshk, H., Masoudi-Nejad, A., & van Leeuwen, C.** (2017). Task modulates functional connectivity networks in free viewing behavior. *NeuroImage*, 159, 289-301. **IF 5.46**
36. **Schmitt, A., van Leeuwen, C & Lachmann, T.** (2017). Connections are not enough for membership: letter/non-letter distinction persists through phonological association learning. *Acta Psychologica*, 176, 85-91. **IF 2.25**

37. **Zharikova, A.**, Gepshtein, S., & van Leeuwen, C. (2017). Paradoxical perception of visual identity in visual motion. *Vision Research*, 136, 1-14. **IF 1.78**
- 2016**
38. **Alexander, D.M.**, Jurica, P., **Trengove, C.**, **Nikolaev A.R.**, Zvyagintsev, M., Mathiak, K., & van Leeuwen, C. (2016). Global neuromagnetic fields have non-zero velocity. *PloS One*, 11, e0148413. **IF 3.23**
39. **Chehelcheraghi, M.**, **Nakatani, C.**, **Steur, E.**, & van Leeuwen, C. (2016). A neural mass model for phase amplitude coupling in EEG. *Biological Cybernetics*, 110, 171-192. **IF 1.73**
40. **Fekete, T.**, van Leeuwen, C., & Edelman, S. (2016). System, subsystem, hive: boundary problems in computational theories of consciousness. *Boundary Problems in Computational Theories of Consciousness, Frontiers in Psychology – Consciousness Research*, 7, 1041. **IF 2.56**
41. Hoya, T. & van Leeuwen, C. (2016). Connected word recognition using a cascaded neurocomputational model. *Connection Science*, 28, 332-345. **IF 0.84**
42. **Nikolaev, A.R.**, **Gepshtein, S.**, & van Leeuwen, C. (2016). Intermittent regime of brain activity at the early, bias-guided stage of perceptual learning. *Journal of Vision*, 16(14), 11. **IF 2.80**
43. **Nikolaev, A.R.**, **Meghanathan, R.N.**, & van Leeuwen, C. (2016). Combining EEG and eye movement recording in free viewing: pitfalls and possibilities. *Brain & Cognition*, 107, 55–83. **IF 2.39**
44. Paramei, G.V., & van Leeuwen, C. Editorial: Color and Form Perception: Straddling the Boundary. *Frontiers in Psychology*, 7. **IF 2.84**
45. **Steur, E.**, Ünal, H.U., van Leeuwen, C., & Michiels, W. (2016). Characterization and computation of partial synchronization manifolds for diffusive delay-coupled systems. *SIAM Journal on Applied Dynamical Systems*, 15, 1874–1915. **IF 1.43**
46. **Trengove, C.**, Diesmann, M., & van Leeuwen, C. (2016). Dynamic effective connectivity in cortically embedded systems of recurrently coupled synfire chains *Journal of Computational Neuroscience*, 40, 1-26. **IF 1.73.**
47. **Weis, T.**, Estner, B., van Leeuwen, C. & Lachmann, T. (2016). SNARC meets SPARC: Automaticity and interdependency in compatibility effects. *Quarterly Journal of Experimental Psychology*, 69, 1366-1383. **IF 2.18.**
48. Welter, M.M., **Jaarsveld, S.**, van Leeuwen, C., & Lachmann, T. (2016). Creativity and intelligence; together over the threshold? A study of matched pairs of primary school children. *Creativity Research Journal*, 28, 212-218. **IF 1.46**
- 2015**
49. **Alexander, D.M.**, **Trengove, C.**, & van Leeuwen, C. (2015). Donders is dead: cortical traveling waves and the limits of mental chronometry in cognitive neuroscience. *Cognitive Processing*, 16, 365-375. **IF 1.36**
50. Gorban, A., **Jarman, N.**, **Steur, E.**, van Leeuwen, C., & Tyukin, I. (2015). Leaders do not look back, or do they? *Mathematical Modelling of Natural Phenomena*, 10, 212–231. **IF 0.72.**
51. Hermens, F., Lachmann, T., & van Leeuwen, C. (2015). Is it really search or just matching? The influence of Goodness, number of stimuli and presentation sequence in same-different tasks. *Psychological Research*, 79, 42-63. **IF 2.86**
52. Jordan, J.S. Srinivasan, N., & van Leeuwen, C. (2015). The role of complex systems in cognitive science, *Cognitive Processing*, 315-317 **IF 1.39**
53. **Meghanathan, R.N.**, van Leeuwen, C., & **Nikolaev, A.R.** (2015). Fixation duration surpasses pupil size as a measure of memory load in free viewing. *Frontiers in Human Neuroscience*, 8, 1063. **IF 2.89**
54. Raffone, A., Srinivasan, N., & van Leeuwen, C. (2015). Rapid switching and complementary evidence accumulation enable flexibility of an all-or-none global workspace for control of attentional and conscious processing: a reply to Wyble et al. *Philosophical Transactions of the Royal Society B*, 370, No. 20140315. **IF 6.31.**
55. **Rentzeperis, I.**, **Alexander, D.M.**, Kiper, D., & van Leeuwen C. (2015). Orientation perception anisotropies indicate functional segregation within the color system. *Journal of Vision*, 15, No. 13. **IF 2.39**
56. van Leeuwen, C. (2015). What makes you think you are conscious? An agnosticist manifesto. *Frontiers in Human Neuroscience*, 9, 170. **IF 2.90.**

2014

57. **Jarman, N., Trengove, C., Steur, E.,** Tyukin, I., & van Leeuwen, C. (2014). Spatially constrained adaptive rewiring in cortical networks creates spatially modular small world architectures. *Cognitive Neurodynamics*, 8, 479-497. **IF 1.74**
 58. Lachmann, T., **Schmitt, A.,** Braet, W., & van Leeuwen, C. (2014). Letters in the Forest: Global precedence effect disappears for letters but not for non-letters under reading-like conditions. *Frontiers in Psychology*, doi:10.3389/fpsyg.2014.00705. **IF 2.84**
 59. Lachmann, T. & van Leeuwen, C. (2014). Reading as functional coordination: not recycling but a novel synthesis. *Frontiers in Psychology*, 5, 1046. **IF 2.84**
 60. **Levichkina, E., Fedorov, G.,** & van Leeuwen, C. (2014). Spatial proximity rather than temporal frequency determines the Wagon Wheel illusion. *Perception*, 43, 295-315. **IF 1.31**
 61. **Nakatani, C., Raffone, A.,** & van Leeuwen, C. (2014). Increased efficiency of conscious access with enhanced coupling of slow and fast neural oscillations. *Journal of Cognitive Neuroscience*, 26, 1168–1179. **IF 4.49.**
 62. Raffone, A., Srinivasan, N., & van Leeuwen, C. (2014). Perceptual awareness and its neural basis: bridging experimental and theoretical paradigms. *Philosophical Transactions of the Royal Society B*, 369, No. 2013203. **IF 7.06.**
 63. Raffone, A., Srinivasan, N., & van Leeuwen, C. (2014). The interplay of attention and consciousness in visual search, attentional blink and working memory consolidation. *Philosophical Transactions of the Royal Society B*, 369, No. 2013153. **IF 7.06.**
 64. **Rentzeperis, I., A.R. Nikolaev, A.R.** Kiper, D.C., & van Leeuwen, C. (2014). Distributed processing of color and form in the visual cortex. *Frontiers in Human Neuroscience*, doi:10.3389/fnhum.2012.00089. **IF 2.9**
- 2013**
65. **Alexander, D.M., Jurica, P., Trengove, C., Nikolaev, A.R., Gepshtein, S.,** Zvyagintsev, M., Mathiak, K., Schulze-Bonhage, A., Rüscher, J., Ball, T., & van Leeuwen, C. (2013). Traveling waves and trial averaging; the nature of single-trial and averaged brain responses in large-scale cortical signals. *NeuroImage*, 73, 95-112. **IF 6.25.**
 66. **Jurica, P., Gepshtein, S., Tyukin, I.,** & van Leeuwen, C. (2013). Sensory optimization by stochastic tuning. *Psychological Review*, 120, 798-816. **IF 9.80.**
 67. **Nakatani, C., Chehelcheraghi, M., Jarrahi, B., Nakatani, H.,** & van Leeuwen, C. (2013). Cross-frequency phase synchrony around the saccade period as a correlate of perceiver's internal state. *Frontiers in Systems Neuroscience*, 7, 18. doi: 10.3389/fnsys.2013.00018. **IF 2.78**
 68. **Nakatani, H.,** & van Leeuwen, C. (2013). Antecedent occipital alpha band activity predicts the impact of oculomotor events in perceptual switching. *Frontiers in Systems Neuroscience*, 7, 19. doi: 10.3389/fnsys.2013.00019. **IF 2.78**
 69. **Nikolaev, A.R., Jurica, P., Nakatani, C., Plomp, G.,** & van Leeuwen, C. (2013). Visual encoding and fixation target selection in free viewing: presaccadic brain potentials. *Frontiers in Systems Neuroscience*. **IF 2.78**
 70. Tyukin, I., **Steur, E.** Nijmeijer, H., & van Leeuwen, C. (2013). Adaptive observers and parametric identification for systems in non-canonical adaptive observer form. *Automatica*, 49, 2409–2423. **IF 2.83**
 71. van Leeuwen, C. (2013). Brain and Mind. *Philosophia Scientiae*, 17 (2), 71-87. **IF 0.15**
- 2012**
72. **Baijal, S., Nakatani, C.,** van Leeuwen, C., & Srinivasan, N. (2012). Processing statistics: an examination of focused and distributed attention using event-related potentials. *Vision Research*, 85, 20-25. **IF 2.14.**
 73. **Jaarsveld, S.,** Lachmann, T., & van Leeuwen, C. (2012). Creative reasoning across developmental levels: Convergence and divergence in problem creation. *Intelligence*, 40, 172–188. **IF 3.17**
 74. Lachmann, T., **Khera, G.,** Srinivasan, N., & van Leeuwen, C. (2012). Learning to read aligns analytical visual skills with grapheme-phoneme mapping: evidence from illiterates. *Frontiers in Evolutionary Neuroscience*, doi: 10.3389/fnevo.2012.00008. **IF 3.40**
 75. **Nakatani, C., Baijal, S.,** & van Leeuwen, C. (2012). Curbing the attentional blink: Practice keeps the mind's eye open. *Neurocomputing*, 84, 13-22. **IF 1.58**
 76. **Nakatani, H.,** Orlandi, N., & van Leeuwen, C. (2012). Reversing as a dynamic process: variability of ocular and brain events in perceptual switching. *Journal of Consciousness Studies*, 19, 117-140. **IF 0.70**

77. **Plomp, G., van Leeuwen, C., & Gepshtein, S.** (2012). Perception of time in articulated visual events. *Frontiers in Psychology* 3, 564. doi: 10.3389/fpsyg.2012.00564. **IF 2.84**
78. **Rentzeperis, I., Nikolaev, A.R., Kiper, D.C., & van Leeuwen, C.** (2012). Relationship between neural response and adaptation selectivity to form and color: an ERP study. *Frontiers in Human Neuroscience*, 6, 98. doi: 10.3389/fnhum.2012.00089. **IF 2.90**
79. **Simione, L., Raffone, A., Wolters, G., Nakatani, C., Salmas, P., Olivetti-Belardinelli, M., & van Leeuwen, C.** (2012). VISA: A neurodynamic model for visuospatial working memory, attentional blink and conscious access. *Psychological Review*, 119, 745-769. **IF 9.79**
80. **Steuer, E., Oguchi, T., van Leeuwen, C., & Nijmeijer, H.** (2012). Partial synchronization in diffusively time-delay coupled oscillator networks. *Chaos*, 043144. **IF 2.08**
81. **Trengove, C., van Leeuwen, C., & Diesmann, M.** (2013). High-capacity embedding of synfire chains in a cortical network model. *Journal of Computational Neuroscience*, 34, 185-209. **IF 2.51**
82. **van den Berg, D., Gong, P., Breakspear, M., & van Leeuwen, C.** (2012). Fragmentation: Loss of global coherence or breakdown of modularity in functional brain architecture? *Frontiers in Systems Neuroscience*, 6, 20. doi: 10.3389/fnsys.2012.00020. **IF 2.78**
83. **Wagemans, J., Feldman, J., Gepshtein, S., van der Helm, P., & van Leeuwen, C.** (2012). A century of Gestalt psychology in visual perception: II. Conceptual and theoretical foundations. *Psychological Bulletin*, 138, 1218-1252. **IF 15.57**
- 2011**
84. **Alexander, D.M., Trengove, C., Sheridan, P., & van Leeuwen, C.** (2011). Generalization of learning by synchronous waves: from perceptual organization to invariant organization. *Cognitive Neurodynamics*, 5, 113-132. **IF 1.74**
85. **Nakatani, H., Orlandi, N., & van Leeuwen, C.** (2011). Precisely timed oculomotor and parietal EEG activity in perceptual switching. *Cognitive Neurodynamics*, 5, 399-409. **IF 2.26**
86. **Nikolaev, A.R., Nakatani, C., Plomp, G., Jurica, P., & van Leeuwen, C.** (2011). Eye fixation-related potentials in free viewing identify encoding failures in change detection. *NeuroImage*, 56, 1598-1607. **IF 6.25**
87. **Perea, M., Nakatani, C., & van Leeuwen, C.** (2011). Transposition effects in reading Japanese Kana: Evidence from eye movements. *Memory & Cognition*, 39, 700-707. **IF 1.73**
88. **van Leeuwen, C., Alexander, D.M., Nakatani, C., Nikolaev, A.R., Plomp, G., & Raffone, A.** (2011). Gestalt has no notion of attention. But does it need one? *Humana Mente Journal of Philosophical Studies*, 17, 35-68.
- 2010**
89. **Alexander, D.M. & van Leeuwen, C.** (2010). Mapping of contextual modulation in the population response of primary visual cortex. *Cognitive Neurodynamics*, 4, 1-24. **IF 2.26**
90. **Batt, R., Palmiero, M., Nakatani, C., & van Leeuwen, C.** (2010) Style and spectral power; Processing of abstract and representational art in artists and non-artists. *Perception*, 39, 1659-1671. **IF 1.31**
91. **Delogu, F., Fedorov, G., Olivetti-Belardinelli, M., & van Leeuwen, C.** (2010). Perceptual preferences in depth stratification of transparent layers: Photometric and non-photometric factors. *Journal of Vision*, 10:19, 1-13, <http://journalofvision.org/10/2/19/>, doi:10.1167/10.2.19. **IF 3.38**
92. **Fairhurst, D., Tyukin, I., Nijmeijer, H., & van Leeuwen, C.** (2010). Non-canonic observers for canonic models of neural oscillators. *Mathematical Modelling of Natural Phenomena*, 5 (2), 146-184. **IF 0.56**
93. **Hoya, T. & van Leeuwen, C.** (2010) A cascaded neuro-computational model for spoken word recognition. *Connection Science*, 22, 87-101. **IF 1.29**
94. **Jaarsveld, S., Lachmann, T., Hamel, R. & van Leeuwen, C.** (2010). Creative Reasoning: The case of generating an RPM item. *Creativity Research Journal*, 22, 304-319. **IF 0.75**
95. **Lachmann, T., & van Leeuwen, C.** (2010). Representational economy, not processing speed, determines preferred processing strategy. *Acta Psychologica*, 134, 290-298. **IF 2.19**
96. **Nikolaev, A.R., Gepshtein, S., Gong, P., & van Leeuwen, C.** (2010). Duration of coherence intervals in electrical brain activity in perceptual organization. *Cerebral Cortex*, 20, 365-382. **IF 5.91**
97. **Palmiero, M., Nakatani, C., Raver, D., Olivetti Belardinelli, M., & van Leeuwen, C.** (2010). Abilities within and across Visual and Verbal Domains: How Specific is their influence on Creativity? *Creativity Research Journal*, 22, 369-377. **IF 0.75**

98. **Plomp, G.**, van Leeuwen, C., & Ioannides, A.A. (2010). Flexible resource allocation in visual cortex accommodates surrounding, semantic, and task-specific context. *Human Brain Mapping*, 31, 1–13. **IF 5.39**
99. **Simione, L.**, Raffone, A., Micciantuono, G., Olivetti Belardinelli, M. & van Leeuwen, C. (2010). Color Binding in Visuo-Spatial Working Memory. *Spatial Cognition VII; Lecture Notes in Computer Science*, 6222, 179–190. **IF 0.40**
100. Tyukin, I., Steur, E., Nijmeijer, H., Fairhurst, D., Song, I., Semyanov, A., & van Leeuwen, C. (2010). State and parameter estimation for canonic models of neural oscillators. *International Journal of Neural Systems*, 20, 193–207. **IF 5.05**

2009

101. **Boenke, L.T.**, Ohl, F., **Nikolaev, A.R.**, Lachmann, T., & van Leeuwen, C. (2009). Different time courses of Stroop and Garner effects in perception — An event-related potentials study. *NeuroImage*, 45, 1272–1288. **IF 5.74**
102. **Herrero, J.L.**, **Nikolaev, A.R.**, Raffone, A., & van Leeuwen, C. (2009). Selective attention in visual short-term memory consolidation. *Neuroreport*, 20, 652–656. **IF 2.16**
103. **Jurica, P.** & van Leeuwen, C. (2009). OMPC: an open-source MATLAB-to-Python compiler. *Frontiers in Neuroinformatics*, 3, Art no. 5 **IF 3.30**
104. **Gong, P.** & van Leeuwen, C. (2009). Distributed dynamical computation in neural circuits with propagating coherent activity patterns. *PloS Computational Biology*, 5(12), e1000611. **IF 5.76**
105. Lachmann, T., Schumacher, B. & van Leeuwen, C. (2009). Controlled but independent: Effects of mental rotation and developmental dyslexia in dual-task settings. *Perception*, 38, 1019–1034. **IF 1.61**
106. Lachmann, T., Steinbrink, C., Schumacher, B., & van Leeuwen, C. (2009). Different letter-processing strategies in diagnostic subgroups of developmental dyslexia occur also in a transparent orthography: Reply to a commentary by Spinelli et al. *Cognitive Neuropsychology*, 26, 759–768. **IF 1.67**
107. Rubinov, M., Sporns, O., van Leeuwen, C., & Breakspear, M. (2009). Symbiotic relationship between brain structure and dynamics. *BMC Neuroscience*, 10, 55. **IF 3.04**
108. **Tyukin, I.**, **Tyukina, T.**, & van Leeuwen, C. (2009). Invariant template matching with spatiotemporal coding: a vote for instability. *Neural Networks*, 22, 425–449. **IF 2.18**

2008

109. **Jincho, N.**, Lachmann, T. & van Leeuwen, C. (2008). Dissociating Congruence Effects in Letters versus Shapes: Kanji and Kana. *Acta Psychologica*, 129, 138–146. **IF 2.19**
110. Lachmann, T., Schumacher, B., Joebges, M., Hummelsheim, H., & van Leeuwen, C. (2008). Procedural learning eliminates specific slowing down of response selection in patients with idiopathic Parkinson syndrome. *Journal of Clinical and Experimental Neuropsychology*, 30, 319–326. **IF 1.68**
111. Lachmann, T. & van Leeuwen, C. (2008). Differentiation in holistic processing in letter versus non-letter shape recognition. *Acta Psychologica*, 129, 121–129. **IF 2.19**
112. Lachmann, T. & van Leeuwen, C. (2008). Goodness is central: Task-invariance of perceptual organization in a dual-task setting. *Japanese Psychological Research*, 50, 193–203. **IF 0.33**
113. Lachmann, T. & van Leeuwen, C. (2008). Contrasting letter recognition strategies in diagnostic subgroups of developmental dyslexia. *Cognitive Neuropsychology*, 25, 730–744. **IF 1.92**
114. **Nakatani, C.** & van Leeuwen, C. (2008). A pragmatic approach to multi-modality and non-normality in fixation duration studies of cognitive processes. *Journal of Eye Movement Research*, 1, 1–12. **IF 1.28 (RG)**
115. **Nikolaev, A.R.**, **Gepshtein, S.**, Kubovy, M., & van Leeuwen, C. (2008). Dissociation of early evoked cortical activity in perceptual grouping. *Experimental Brain Research*, 186, 107–122. **IF 2.02**
116. **Nikolaev, A.R.**, Ziessler, M., **Dimova, K.**, & van Leeuwen, C. (2008). Effect codes affect action planning: Evidence from event related potentials. *Biological Psychology*, 78, 53–65. **IF 2.71**
117. **Tyukin, I.**, Prokhorov, D., & van Leeuwen, C. (2008). Adaptive classification of temporal signals in fixed-weights recurrent neural networks: an existence proof. *Neural Computation*, 20, 2564–2596. **IF 2.34**
118. **Tyukin, I.**, **Steur, E.**, Nijmeijer, H., & van Leeuwen, C. (2008). Non-uniform small-gain theorems for systems with unstable invariant sets. *SIAM Journal on Control and Optimization*, 47, 849–882. **IF 1.29**

119. van Leeuwen, C. (2008). Chaos breeds autonomy: connectionist design between bias and babysitting. *Cognitive Processing*, 9, 83–92. **IF 1.16**

2007

120. Gong, P. & van Leeuwen, C. (2007). Dynamically maintained spike timing sequences in networks of pulse-coupled oscillators with delays. *Physical Review Letters*, 98 (4), art. no. 048104. **IF 6.94**
121. Gong, P., Nikolaev, A.R., & van Leeuwen, C. (2007). Dynamics of collective phase synchronization in human electrocortical activity. *Physical Review E*, 76, 011904. **IF 2.48**
122. Herrero, J.L. Crawley, R. van Leeuwen, C., & Raffone, A. (2007). Visual marking and change detection. *Cognitive Processing*, 8, 233–244. **IF 1.16**
123. Ito, J., Nikolaev, A.R., & van Leeuwen, C. (2007). Dynamics of spontaneous transitions between global brain states. *Human Brain Mapping*, 28, 904–913. **IF 6.15**
124. Kwok, H.F., Jurica, P., Raffone, A., & van Leeuwen, C. (2007). Robust emergence of small-world structure in networks of spiking neurons. *Cognitive Neurodynamics*, 1, 39–51. **IF 2.26**
125. Lachmann, T. & van Leeuwen, C. (2007). Paradoxical enhancement of letter recognition in developmental dyslexia. *Developmental Neuropsychology*, 31, 61–77. **IF 2.92**
126. Lachmann, T. & van Leeuwen, C. (2007). Goodness takes effort: perceptual organization in dual-task settings. *Psychological Research/Psychologische Forschung*, 71, 152–169. **IF 1.85**
127. Nikolaev, A.R. & van Leeuwen, C. (2007). Collinearity, curvature interpolation, and the power of perceptual integration. *Psychological Research/Psychologische Forschung*, 71, 427–437. **IF 1.85**
128. Rusiak, P., Lachmann, T., Jaskowski, P., & van Leeuwen, C. (2007). Mental rotation of letters and shapes in developmental dyslexia. *Perception*, 36, 617–631. **IF 1.62**
129. Tyukin, I., Prokhorov, D., & van Leeuwen, C. (2007). Adaptation and parameter estimation in systems with unstable target dynamics and nonlinear parametrization. *IEEE Transactions on Automatic Control*, 52, 1543–1559. **IF 2.82**
130. van Leeuwen, C. (2007). What needs to emerge to make you conscious? *Journal of Consciousness Studies*, 14, 115–136. Japanese translation, with extensions, in: *Seitai no Kagaku*, 58, 21–36. (transl: Masao Ito & Hironori Nakatani). **IF 0.70**
131. van Leeuwen, C. (2007). Towards an interdisciplinary science of visual Gestalten. *Gestalt Theory*, 29, 213–222.
132. van Leeuwen, C. (2007). Synchrony, binding, and consciousness: how are they related? *Theory and Psychology*, 17, 779–790. **IF 0.59**

Before 2007

133. Alluvada, P. & van Leeuwen, C. (2006). Phase plot manifestations in globally coupled maps: effects of scale. *Connection Science* 18, 61–67. **IF 1.29**
134. Gong, P., Nikolaev, A.R., & van Leeuwen, C. (2003). Scale-invariant fluctuations of the dynamical synchronization in human brain electrical activity. *Neuroscience Letters*, 336, 33–36. **IF 2.09**
135. Gong, P. & van Leeuwen, C. (2004). Evolution to a small-world network with chaotic units. *Europhysics Letters*, 67, 328–333. **IF 2.21**
136. Gong, P. & van Leeuwen, C. (2003). Emergence of scale-free network with chaotic units. *Physica A, Statistical mechanics and its applications*, 321, 679–688. **IF 1.43**
137. Hogeboom, M. & van Leeuwen, C. (1997). Visual search strategy and perceptual organization covary with individual preference and structural complexity *Acta Psychologica*, 95, 141–164. **IF 1.78**
138. Hogeboom, M. & van Leeuwen, C. (1992). Synergetica: een nieuwe impuls voor Gestaltpsychologie en ecologisch realisme (Synergetics: a new impulse for Gestalt psychology and ecological realism). *Nederlands tijdschrift voor Psychologie (Netherlands Journal of Psychology)*, 47, 31–36 (in Dutch).
139. Ito, J., Nikolaev, A.R., Luman, M., Aukes, M.F., Nakatani, C., & van Leeuwen, C. (2003). Perceptual switching, eye-movements, and the bus-paradox. *Perception*, 32, 681–698. **IF 1.62**
140. Ito, J., Nikolaev, A.R., & van Leeuwen, C. (2005). Spatial and temporal structure of phase synchronization of spontaneous EEG alpha activity. *Biological Cybernetics*, 92, 54–60. **IF 1.69**
141. Jaarsveld, S. & van Leeuwen, C. (2005). Sketches from a design process: creative cognition inferred from intermediate products. *Cognitive Science*, 29, 79–107. **IF 2.67**
142. Lachmann, T. & van Leeuwen, C. (2005a). Task-invariant aspects of Goodness in perceptual representation. *Quarterly Journal of Experimental Psychology*, 58A, 1295–1310. **IF 2.15**

143. **Lachmann, T.** & van Leeuwen, C. (2005b). Individual pattern representations are context independent, but their collective representation is context dependent. *Quarterly Journal of Experimental Psychology*, 58A, 1265–1294. **IF 2.15**
144. **Lachmann, T.** & van Leeuwen, C. (2004). Negative Congruence Effects in Letter and Pseudo-letter Recognition: The Role of Similarity and Response Conflict *Cognitive Processing*, 5, 239–248. **IF 1.16**
145. **Liu, L., Plomp, G., van Leeuwen, C., & Ioannides, A.A.** (2006). Neural correlates of priming on occluded figure interpretation in human fusiform cortex. *Neuroscience*, 141, 1585–1597. **IF 7.49**
146. **Lu, H.T., & van Leeuwen, C.** (2006). Synchronization of chaotic neural networks via output or state coupling. *Chaos, Solitons, & Fractals*, 30, 166–176. **IF 3.02**
147. **Nakatani, C., Ito, J., Nikolaev, A.R., Gong, P., & van Leeuwen, C.** (2005). Phase synchronization analysis of EEG during attentional blink. *Journal of Cognitive Neuroscience*, 12, 343–354. **IF 5.12**
148. **Nakatani, H., Khalilov, I., Gong, P., & van Leeuwen, C.** (2003). Nonlinearity in giant depolarizing potentials. *Physics Letters A*, 319, 167–172. **IF 1.71**
149. **Nakatani, H.** & van Leeuwen, C. (2006). Transient synchrony of distant brain areas and perceptual switching. *Biological Cybernetics*, 94, 445–457. **IF 1.69**
150. **Nakatani, H.** & van Leeuwen, C. (2005). Individual differences in perceptual switching rates; the role of occipital alpha and frontal theta band activity. *Biological Cybernetics*, 93, 343–354. **IF 1.69**
151. **Nikolaev A.R., Gong P., & van Leeuwen, C.** (2005). Evoked phase synchronization between adjacent high-density electrodes in human scalp EEG: Duration and time course related to behavior. *Clinical Neurophysiology*, 116, 2403–2419. **IF 2.47**
152. **Nikolaev, A.R.** & van Leeuwen, C. (2004). Flexibility in spatial and non-spatial feature grouping: an Event-Related Potentials study. *Cognitive Brain Research*, 22, 13–25. **IF 3.77**
153. **Plomp, G., Liu, L., van Leeuwen, C., & Ioannides, A.A.** (2006). The mosaic stage in amodal completion as characterized by magnetoencephalography responses. *Journal of Cognitive Neuroscience*, 18, 1394–1405. **IF 5.12**
154. **Plomp, G., Nakatani, C., Bonnardel, V., & van Leeuwen, C.** (2004). Amodal completion as reflected in gaze durations. *Perception*, 33, 1185–2000. **IF 1.62**
155. **Plomp, G.** & van Leeuwen, C. (2006). Asymmetric Priming Effects in Visual Processing of Occlusion Patterns. *Perception & Psychophysics*, 68, 946–958. **IF 1.37**
156. **Raffone A., Olivetti-Belardinelli, M., & van Leeuwen, C.** (2001). Regularities, context, and neural coding: Are universals reflected in the experienced world?" *Behavioral and Brain Sciences*, 24, 701–702.
157. **Raffone, A.** & van Leeuwen, C. (2003). Dynamic synchronization and chaos in an associative neural network with multiple active memories. *Chaos*, 13, 1090–1104. **IF 2.19**
158. **Raffone, A.** & van Leeuwen, C. (2001a). Activation and coherence in memory processes: Revisiting the Parallel Distributed Processing approach to retrieval. *Connection Science*, 13, 349–382. **IF 1.29**
159. **Raffone A., van Leeuwen, C.** (2001b). Chaos and neural coding: Is the binding problem a pseudo-problem?, *Behavioral and Brain Sciences*, 24, 826–827.
160. **Simione, L., Raffone, A., Micciantuono, G., Olivetti Belardinelli, M., & van Leeuwen, C.** (2010). Color binding in visuo-spatial working memory. SC'10: Proceedings of the 7th international conference on Spatial cognition August pp 179–190.
161. **Snijder, P.** & van Leeuwen, C. (1994). Motion detection and tracking with a hierarchical modular filter system. *Pattern Recognition*, 27, 1463–1473. **IF 2.92**
162. **Stins, J.** & van Leeuwen, C. (1993). Context influence on the perception of figures as conditional upon perceptual organization strategies. *Perception & Psychophysics*, 53, 34–42. **IF 1.37**
163. **Tyukin, I., van Leeuwen, C., & Prokhorov, D.** (2003). Parameter estimation of sigmoid superpositions. *Neural Computation*, 15, 2419–2455. **IF 2.34**
164. **Tyukin, I.** & van Leeuwen, C. (2006). Decentralized adaptation in interconnected uncertain systems with nonlinear parameterization. *Lecture Notes in Control and Information Sciences*, 336, 251–270. **IF 1.10**
165. **van den Berg, D.** & van Leeuwen, C. (2004). Adaptive rewiring in chaotic networks renders small-world connectivity with consistent clusters. *Europhysics Letters*, 65, 459–464. **IF 2.21**
166. **van der Vegt, J., Buffart, H., van Leeuwen, C.** (1989). The Structural Memory: A network model for human perception of serial objects. *Psychological Research*, 50, 211–222. **IF 1.74**

167. van Leeuwen, C. (2005). The Laboratory for Perceptual Dynamics at RIKEN BSI. *Cognitive Processing*, 6, 208–215.
168. van Leeuwen, C. (1998). Regular spaces versus computing with chaos. *The Behavioral and Brain Sciences*, 21, 482–483.
169. van Leeuwen, C. (1991). Testing organization preferences in serial pattern learning. *Journal of General Psychology*, 118, 139–145. **IF 1.05**
170. van Leeuwen, C. (1990a). Perceptual learning systems as conservative structures: Is economy an attractor? *Psychological Research*, 52, 145–152. **IF 1.74**
171. van Leeuwen, C. (1990b). Indeterminacy of the isomorphism heuristic. *Psychological Research*, 52, 1–4. **IF 1.74**
172. van Leeuwen, C. (1989). PDP and Gestalt, an integration? *Psychological Research*, 50, 199–201. **IF 1.74**
173. van Leeuwen, C. (1987). Schemas and representational constraints. *Behavioral and Brain Sciences*, 10, 448.
174. van Leeuwen, C. & Bakker, L. (1995). Stroop can occur without Garner interference: Strategic and mandatory influences in multidimensional stimuli. *Perception & Psychophysics*, 57, 379–392. **IF 1.37**
175. van Leeuwen, C. & Buffart, H. (1991). Action at a distance: Evidence for network models from plausibility ratings of novel compounds. *The Psychological Record*, 41, 415–428. **IF 0.40**
176. van Leeuwen, C. & Buffart, H. (1989). Facilitation of retrieval by perceptual structure. *Psychological Research*, 50, 202–210. **IF 1.74**
177. van Leeuwen, C., Buffart, H., & van der Vegt, J. (1988). Sequence influence on the organization of meaningless serial stimuli: Economy after all. *Journal of Experimental Psychology: Human Perception and Performance*, 14, 481–502. **IF 3.00**
178. van Leeuwen, C. & Lachmann, T. (2004). Negative and positive congruence effects in letters and shapes. *Perception & Psychophysics*, 66, 908–925. **IF 1.37**
179. van Leeuwen, C. & Raffone A. (2001). Coupled nonlinear maps as models of perceptual pattern and memory trace dynamics. *Cognitive Processing*, 2, 67–116. **IF 1.16**
180. van Leeuwen, C. & Simionescu I. (2002). Robustness and consistency of dynamic clustering in complex systems, *Connection Science*, 14, 203–217. **IF 1.29**
181. van Leeuwen, C., Steyvers, M., & Nooter, M. (1997). Stability and intermittency in large-scale coupled oscillator models for perceptual segmentation. *Journal of Mathematical Psychology*, 41, 319–344. **IF 1.64**
182. van Leeuwen, C. & Stins, J. (1994). Perceivable information or: the happy marriage between ecological realism and Gestalt. *Philosophical Psychology*, 7, 263–281. **IF 0.40**
183. van Leeuwen, C. & van de Hof, M. (1991). What has happened to Prägnanz: Coding, stability or resonance? *Perception & Psychophysics*, 50, 435–448. **IF 1.37**
184. van Leeuwen, C. & van Leeuwen, L. (1990). Wie werden Symbole wahrgenommen? Die Antworten von Helmholtz und Koffka (How are symbols perceived? The answers of Helmholtz and Koffka). *Zeitschrift für Semiotik (Journal of Semiotics)*, 12, 63–74 (in German).
185. van Leeuwen, C., Verver, S., & Brinkers, M. (2000). Visual illusions and outline-invariance in non-stationary activity patterns. *Connection Science*, 12, 279–298. **IF 1.29**
186. van Leeuwen, L., Smitsman, A., & van Leeuwen, C. (1994). Affordances, perceptual complexity, and the development of tool use. *Journal of Experimental Psychology: Human Perception and Performance*, 20, 174–191. **IF 3.00**
187. Verstijnen, I.M., van Leeuwen, C, Goldschmidt, G., Hamel, R., & Hennessey, J.M. (1998). Creative discovery in imagery and perception: Combining is relatively easy, restructuring takes a sketch. *Acta Psychologica*, 99, 177–200. **IF 1.78**
188. Verstijnen, I.M., van Leeuwen, C, Goldschmidt, G., Hamel, R., & Hennessey, J.M. (1998). Sketching and Creative Discovery. *Design Studies*, 19, 519–546. **IF 1.12**
189. Verstijnen, I.M., van Leeuwen, C, Hamel, R., & Hennessey, J. (2000). What imagery can't do and why sketching might help. *Empirical Studies of the Arts*, 18, 167–182.
190. Verstijnen, I.M. & van Leeuwen, C. (1998). Anomalous orientation effects in the Bourdon illusion. *Psychonomic Bulletin & Review*, 5, 290–294. **IF 2.11**

Invited journal articles and Book reviews

191. **Nakatani, C.**, Ueno, K., van Leeuwen, C., Tanaka, K., & Cheng, K (2006) Brain areas involved in scene rotation task: An fMRI study. *Attention and Cognition*, 20, <http://www.l.u-tokyo.ac.jp/AandC/>
192. **Nakatani, C.** & van Leeuwen, C. (2004). EEG phase synchronization analysis applied to the attentional blink phenomenon. *Attention and Cognition*, 25, <http://www.l.u-tokyo.ac.jp/AandC/>
193. van Leeuwen, C. (2007). Vision requires flexibility. *RIKEN BSI news*
194. van Leeuwen, C. (2007). Small World Networks and the Brain. *The Brain and Neural Networks*, 14, No. 3, 186–197.
195. Van Leeuwen, C. (2004). What is in a switch? The complex reality of perceptual ambiguity. *RIKEN BSI News*, 23, <http://bsi.riken.jp/bsi-news/bsinews23/no23/networke.html>
196. van Leeuwen, C. (1995). Founding fathers erring in the dark. Review of S.C. Masin, Ed: (1993), *Foundations of Perceptual Theory*. *Acta Psychologica*, 89, 283–290.
197. **Verstijnen, I.M.** & van Leeuwen, C. (1995). Review of: B. Roskos-Ewoldsen, M. Intons-Peterson & R. Anderson (Eds), *Imagery, Creativity and Discovery: a cognitive approach*. *Acta Psychologica*, 89, 293–295.

Full-length Conference Proceedings

198. **Alexander, D.M.**, **Jurica, P.**, **Nikolaev, A.R.**, Zvyagintsev, M., Mathiak, K. & van Leeuwen, C. (2013). The origin of the spatial pattern of amplitudes in trial-averaged MEG. *Proceedings of the 3rd International Conference on Cognitive Neurodynamics*, 303-309.
199. **Archer, D.**, van Someren, M., & van Leeuwen, C. (2009). Coupled Maps as tool for modeling human information processing: issues of readout. *Proceedings of IEEE IFAC Chaos '09*, CD.
200. Bonnardel, V. Flinham, J. & van Leeuwen, C. (2007). Study of colour categorical perception with equal discriminability stimuli. *Perception*, 36, 190a.
201. **Delogu, F.** Olivetti Belardinelli, M., & van Leeuwen, C. (2009) Photometric, figural and crossmodal factors in the perception of transparency and in depth stratification of layers. *Cognitive Processing*, 10 S204–S207.
202. Gepshtein S., Jurica, P., Tyukin, I., van Leeuwen, C., & Albright, T.D. (2012). Receptive field plasticity and visual adaptation. 467.16. 2012 Neuroscience Meeting Planner. Society for Neuroscience, New Orleans
203. **Gong, P.**, **Nikolaev, A.R.**, & van Leeuwen, C. (2003). Dynamical properties of global phase synchronization patterns in human EEG. *Proceedings of the Symposium on Nonlinear Science and its Applications SNSA 03*. Shanghai, China, CD-ROM, 0470/full text.
204. **Gong, P.** & van Leeuwen, C. (2002). Emergence of scale-free network structure with chaotic units. In E. Damiani, R.J. Howlett, L.C. Jain, & N. Ichalkaranje (Eds.): *Knowledge-based Intelligent Information Engineering Systems & Allied Technologies –KES 2002*. Amsterdam, NL: IOS Press 1-5860- 280-1, (pp. 900–904).
205. Gorban, A.N., **Jarman, N.**, **Steur, E.**, Nijmeijer, H., van Leeuwen, C., & Tyukin, I. (2015). Directed cycles and multi-stability of coherent dynamics in systems of coupled nonlinear oscillators. *IFAC Papers online* 48-18, 019-024.
206. **Ito, J.**, **Nikolaev, A.R.**, & van Leeuwen, C. (2004). Spatio-temporal dynamics of human EEG alpha activity during resting state. *AIP Conference Proceedings*, Vol. 742, Issue 1, (pp. 210–215).
207. Jaarsveld, S., Lachmann, T., & van Leeuwen, C. (2013). The impact of problem space on reasoning: solving versus creating matrices. *Proceedings of the 35th Cognitive Science conference*, 2632–2637.
208. Jeronimus, M., Westerveld, S., van Leeuwen, C., Bhulai, S., & van den Berg, D. (2017). Japanese Kanji characters are small-world connected through shared components. *DATA ANALYTICS 2017 : The Sixth International Conference on Data Analytics* (pp. 53-58), ISBN: 978-1-61208-603-3.
209. **Jincho, N.**, Lachmann, T., & van Leeuwen, C. (2007). Dissociating congruence effects in letters versus shapes: The case of kanji and kana in Japanese. In: S. Mori, T. Miyaoka, W. Wong. (Eds.): *Fechner Day 2007*. *Proceedings of the 23rd Annual Meeting of the International Society for Psychophysics*, Tokyo, Japan: The International Society for Psychophysics, (pp. 317–322).
210. **Jurica, P.**, **Brinkers, M.**, van Leeuwen, C. (2002). Component-based framework for design and simulation of neural networks. In: E. Damiani, R.J. Howlett, L.C. Jain, & N. Ichalkaranje (Eds.):

- Knowledge-based Intelligent Information Engineering Systems & Allied Technologies –KES 2002. Amsterdam, NL: IOS Press 1-58603-280-1, (pp. 922–926).
211. **Jurica, P., Gepshtein, S., Tyukin, I., Prokhorov, D., & van Leeuwen, C. (2007).** Unsupervised adaptive optimization of motion-sensitive systems guided by measurement uncertainty. *Proceedings of the 3rd International Conference on Intelligent Sensors, Sensor Networks and Information Processing (ISSNIP)*, 179–184.
 212. **Koether, R., Schumacher, B., Scheller, K., van Leeuwen, C., & Lachmann, T. (2007).** The relation between speed of visual-auditory integration and general intelligence in dyslexics and normal reading children. In: S. Mori, T. Miyaoka, W. Wong. (Eds.): *Fechner Day 2007. Proceedings of the 23rd Annual Meeting of the International Society for Psychophysics*, Tokyo, Japan: The International Society for Psychophysics, (pp. 357–362).
 213. Lachmann, T., **Khera, G., & van Leeuwen, C. (2011).** Congruence effects in letters versus shapes: the rule of literacy. In D. Algom, D. Zakay, E. Chajut, Y. Mama, & V. Shakuf, *Proceedings of the 25th Annual Meeting of the International Society for Psychophysics*, Tel Aviv: ISP. pp. 463–467.
 214. **Lachmann, T., & van Leeuwen, C. (2004c).** Basic functions of reading: Feature integration in letter recognition. In N. Srinivasan et al. (Eds.): *Proceedings of the International Conference of Cognitive Science*. Allahabad, India: Center for Behavioural and Cognitive Science, CD-Rom
 215. **Nakatani, C., Baijal, S., & van Leeuwen, C. (2008)** Practice effects on EEG phase synchrony during attentional blink. *Proceedings of the ICP2008*.
 216. **Nakatani, C., Baijal, S., & van Leeuwen, C. (2009).** Practice begets the second target: task repetition and the attentional blink effect. In: N. Srinivasan (Ed.): *Progress in Brain Research*, Volume 176. Amsterdam: Elsevier (pp 123–134). IF 3.04
 217. **Nakatani, C. & van Leeuwen, C. (2011).** Rhythm matters: A case in attentional blink. *Proceedings of the 3rd International Conference on Cognitive Neurodynamics ICCN 2011*, CD
 218. **Nakatani, C. & van Leeuwen, C. (2007).** Grouping of target sequences for conscious report. In: S. Mori, T. Miyaoka, W. Wong. (Eds.): *Fechner Day 2007. Proceedings of the 23rd Annual Meeting of the International Society for Psychophysics*, Tokyo, Japan: The International Society for Psychophysics, (pp. 63–66).
 219. **Nakatani, H. & van Leeuwen, C. (2007).** EEG and eye-events relating to perceptual switching in the Necker cube. In: S. Mori, T. Miyaoka, W. Wong. (Eds.): *Fechner Day 2007. Proceedings of the 23rd Annual Meeting of the International Society for Psychophysics*, Tokyo, Japan: The International Society for Psychophysics, (pp. 73–78).
 220. **Nakatani, H. & van Leeuwen, C. (2003).** A basic study on analysis of single-trial event related potentials induced by visual stimulation. *Proceedings of the 18th Symposium on Biological and Physiological Engineering*, (pp. 251–252). (in Japanese)
 221. Nikolaev, A.R., **Esposito, A., Chiarella, S.G., Raffone, A., Gepshtein, S., & van Leeuwen, C. (2022).** Orientation bias in ambiguous dot lattices: contextual influences and electrophysiological correlates. *Proceedings of Fechner Day, Lund*, in press.
 222. **Nikolaev, A.R., Gepshtein, S., Gong, P., Ito, J., & van Leeuwen, C. (2009).** Quasi-stable phase synchrony in ongoing and evoked EEG activity. *Proceedings of ISBET 2009*, Kyoto, Japan: Kyoto University Press.
 223. **Nikolaev, A.R., Gepshtein, S., Kubovy, M., & van Leeuwen, C. (2007).** Temporal structure of perceptual grouping: EEG analysis. In: S. Mori, T. Miyaoka, W. Wong. (Eds.): *Fechner Day 2007. Proceedings of the 23rd Annual Meeting of the International Society for Psychophysics*, Tokyo, Japan: The International Society for Psychophysics, (pp. 67–72).
 224. **Nikolaev, A.R., Gepshtein, S., & van Leeuwen, C. (2011).** Spontaneous EEG activity and biases in perception of supra-threshold stimuli. *Proceedings of the 3rd International Conference on Cognitive Neurodynamics*, 289–295.
 225. **Nikolaev, A.R., Gong, P., & van Leeuwen, C. (2005).** Local phase synchronization of event-related activity modulated by visual attention. *Unveiling the Mystery of the Brain: Neurophysiological Investigation of the Brain Function*, International Congress Series Vol. 1278, (pp. 369–372).
 226. **Nikolaev, A.R., Ito, J., Aukes, M., Luman, M., Nakatani, C., & van Leeuwen, C. (2002).** Eye movements during perceptual switches in the pointing triangles illusion. In: L. Wang, J.C. Rajapakse, & K. Fukushima

- (Eds): Iconip'02 Proceedings of the 9th International Conference of Neural Information Processing, Singapore, 981-04-7524-1, (pp. 1174–1176).
227. **Nikolaev, A.R.,** & van Leeuwen (2004). Effect of proximity and local orientation on evoked electrical brain activity in perceptual grouping in: *Frontiers in Human Brain Topology*. Proceedings of ISBET 2004. International Congress Series, Vol. 1270, (pp. 283–286).
 228. **Nikolaev, A.R.,** Ziessler, M., & van Leeuwen, C. (2007). Predicted action outcomes prepare the visual system for their perceptual consequences. In: S. Cummins-Sebree, M.A. Riley, K. Shockley (Eds): *Studies in Perception and Action*, IX. New York, NY: Lawrence Erlbaum Associates, (pp. 16–20).
 229. **Plomp, G., Nakatani, C.,** & van Leeuwen, C. (2002). Different interpretations of ambiguously occluded figures are reflected in eye movements. In: L. Wang, J.C. Rajapakse, & K. Fukushima (Eds): *Iconip'02 Proceedings of the 9th International Conference of Neural Information Processing*, Singapore, 981-04-7524-1, (pp. 1169–1173).
 230. Raffone, A. & van Leeuwen, C. (2002). The “divide and conquer” model of image segmentation: object-bounded synchrony propagation in Coupled Map Lattices. In: E. Damiani, R.J. Howlett, L.C. Jain, & N. Ichalkaranje (Eds.): *Knowledge-based Intelligent Information Engineering Systems & Allied Technologies –KES 2002 Amsterdam*, NL: IOS Press 1-58603-280-1, (pp. 910–916).
 231. **Rijlaarsdam, D.J., Tyukin, I.,** Nijmeijer, H., Semyanov, A., & van Leeuwen, C. (2007). Synchronization of Neural Oscillators with Diffuse Coupling: Does the Leakage of Neurotransmitter Matter? In *Proceedings of the 3-d IEEE Conference on Physics and Control*, <http://lib.physcon.ru/?item=1366>
 232. **Steur, E.,** van Leeuwen, C., & Michiels, W. (2014). Partial synchronization manifolds for linearly time-delay coupled systems. Groningen, NL: *Proceedings of the 21st International Symposium on Mathematical Theory of Networks and Systems (MTNS14)*, pp. 867-874. .
<http://fwn06.housing.rug.nl/mtns2014-papers/fullPapers/0117.pdf>
 233. **Steur, E., Tyukin, I.,** Nijmeijer, N., & van Leeuwen, C. (2007). Reconstructing Dynamics of Spiking Neurons from Input-Output Measurements in Vitro. In *Proceedings of the 3-d IEEE Conference on Physics and Control*. Potsdam, <http://lib.physcon.ru/?item=1350>
 234. **Steur, E., Tyukin, I.,** Gorban, A.N., **Jarman, N.,** Nijmeijer, H., & van Leeuwen, C. (2016). Coupling-modulated multi-stability and coherent dynamics in directed networks of heterogeneous nonlinear oscillators with modular topology. *IFAC-PapersOnLine* 49 (14), 62-67.
 235. **Steur, E.,** van Leeuwen, C. & Pogromsky, A. (2015). Synchronous oscillations in networks of time-delay coupled inert systems. *IFAC Papers online* 48-18, 031-036.
 236. **Tamura, K.,** Indurkha, B., Shinohara, K., Tversky, B., & van Leeuwen, C. (2005). Towards effective spatial navigation systems for pedestrians. *IEICE, Human Communication Systems*, 104, (pp. 59–64). (in Japanese).
 237. **Trengove, C.,** van Leeuwen, C., & Diesmann, M. (2011). Complex Network Topology and Dynamics in Networks Supporting Precisely-timed Activity Patterns. *Proceedings of the 3rd International Conference on Cognitive Neurodynamics ICCN 2011*.
 238. **Tyukin, I.,** Prokhorov, D., & van Leeuwen, C. (2005). A new method for adaptive brake control. *Proceedings of the American Control Conference*, 2194-2199.
 239. **Tyukin, I.,** Prokhorov, D.V., & van Leeuwen, C. (2003). Finite form realization of adaptive algorithms. In: *Proceedings of the European Control Conference (ECC 2003)*. Cambridge, UK, CD-Rom.
 240. **Tyukin, I., Steur, E.,** Nijmeijer, H., Fairhurst, D. Song, I., Semyanov, A., & van Leeuwen, C. (2009). State and parameter estimation for canonical models of neural oscillators: existence and performance issues. *Proceedings of the XV International Conference on Neurocybernetics*, 23-25 September, Vol. 3. (pp. 70-99).
 241. **Tyukin, I., Steur, E.,** Nijmeijer, H., & van Leeuwen C. (2008a) Non-uniform Small Gain Theorems for Systems with Unstable Invariant Sets. In *Proceedings of the 47-th IEEE Conference on Decision and Control*. Cancun, Mexico (pp. 5080–5085).
 242. **Tyukin, I., Steur, E.,** Nijmeijer, H., & van Leeuwen, C. (2008b) State and parameter estimation for systems in non-canonical adaptive observer form. In: *Proceedings of the 17-th IFAC World Congress on Automation Control*. Seoul, Korea (full text pdf)

243. **Tyukin, I., Steur, E.,** Nijmeijer, H., & van Leeuwen, C. (2008) Non-uniform small-gain theorems for systems with critical and slow relaxations. In: Proceedings of the 17-th IFAC World Congress on Automation Control. Seoul, Korea (pp. 6269-6276).
244. **Tyukin, I.** & van Leeuwen, C. (2003). Pattern-dependent synchronization in a system of coupled maps. Proceedings of the Symposium on Nonlinear Science and its Applications (SNSA 03), CD-Rom Shanghai, China, 0470/full text.
245. **Tyukin, I.** & van Leeuwen, C. (2003). On the choice of coupling in a system of coupled maps: Structure implies features. In: Proceedings of the Physics and Control Conference (PhysCon 2003), St. Petersburg, Russia. IEEE Catalog number: 03EX708C, ISBN: 0-7803-7940-3, (pp 555–562).
246. **Tyukin, I.** & van Leeuwen, C. (2002). Some problems related to the choice of coupling in a system of coupled maps. In: E. Damiani, R.J. Howlett, L.C. Jain, & N. Ichalkaranje (Eds.): Knowledge-based Intelligent Information Engineering Systems & Allied Technologies –KES 2002 Amsterdam, NL: IOS Press 1-58603-280-1, (pp. 917–921).
247. **Tyukin I.,** van Leeuwen C., Prokhorov D.V., & Terekhov V.A. (2002). On a Problem of Time-Varying Learning Rate Influence on the Adaptive System Dynamics. Proceedings of 41st IEEE Conference on Decision and Control. Nevada, USA, (pp. 4718–4721).
248. **Valenzi, S.,** Olivetti Belardinelli, M, & van Leeuwen, C. (2009) Attentional interference facilitates skilled anticipatory action. *Cognitive Processing*, 10, S334–S337. **IF 1.57.**
249. van Leeuwen, C. (2021). Werkelijkheid, wat is dat nou helemaal? Hoe onze waarneming objectiviteit in de weg staat. *Karakter*, 75, 18-23.
250. van Leeuwen, C. (2014). Ten years of adaptive rewiring networks in cortical connectivity modeling. Progress and perspectives. *Cognitive Processing*, 15, S146-S148 **IF 1.57.**
251. van Leeuwen, C. (2006). We see the world the way we do because of how brain activity moves. *Cognitive Processing*, 7, Suppl. 5, 4–6.
252. van Leeuwen, C. (2001). The complex dynamical systems approach to inner psychophysics. In: E. Sommerfeld, R. Kompass, T. Lachmann (Eds.): Fechner Day 2001: Proceedings of the International Society of Psychophysics. Lengerich, Germany: Pabst. 3-936142-12-2, (pp. 55–60).
253. van Leeuwen, C. (2000). Coupled Map Lattices as Models for Visual Information Processing. Proceedings of the International Conference of Neural Information Processing. (pp. 408–411).
254. van Leeuwen, C. (1993). We see the world as we do because we view the world as we do: Strategies of Gestalt formation. In R. Casati & G. White (Eds.): Proceedings of the 16th international Wittgenstein Symposium. Kirchberg am Wechsel, Austria: The Austrian Ludwig Wittgenstein Society, (pp. 285–291).
255. van Leeuwen, C., **Aukes, M., & Luman, M.** (2002). Ambiguous figures, fixation durations, and the Bus-paradox. In: L. Wang, J.C. Rajapakse, & K. Fukushima (Eds): Iconip'02 Proceedings of the 9th International Conference of Neural Information Processing, Singapore, 981-04-7524-1, (pp 1164–1168).
256. van Leeuwen, C., **Gong, P., & Nikolaev, A.R.** (2002). Coherence intervals in the brain and their role in inner psychophysics. In J.A. Da Silva, E.H. Matsushima, & N.R. Ribeiro-Filho (Eds.): Fechner Day 2002. Ribeirao Preto, Brasil: ISP. 85-902952-1-4, (pp. 151–155).
257. van Leeuwen, C. & **Lachmann, T.** (2004b). Negative and positive congruence effects in letters and shapes. *Attention & Cognition* No. 24, <http://www.l.u-tokyo.ac.jp/AandC/>.
258. van Leeuwen, C. & **Plomp, G.** (2007). Priming asymmetry in visual occlusion patterns. Fechner Day 2007. Proceedings of the 23rd Annual Meeting of the International Society for Psychophysics, Tokyo, Japan: The International Society for Psychophysics, (pp. 79–84).
259. van Leeuwen, C., **Raffone, A., & Simionescu, A.** (2001). Flexible Synchronization in cognitive processing. In: L. Zhang & F. Gu (Eds.): Neural Information Processing. Iconip2001 Proceedings, Vol. 1. Shanghai, China: Fudan University Press, (pp. 217–221).
260. van Leeuwen, C., Rubinov, M., Breakspear, M., Sporns, O., **Nikolaev, A.R., van den Berg, D. & Gong, P.** (2009). Quasi-Stable Phase Synchrony Optimizes Brain Architectures. In: Proceedings of ICCN09.
261. **Verstijnen, I.M.,** Stuyver, R., Hennessey, J.M., van Leeuwen, C., & Hamel, R. (1997). Considerations for electronic idea creation tools. Conference Manual of CHI-96.

Books and Edited Volumes

262. Olivetti-Belardinelli, M., Huenefeldt, T., Lancioni, G.E., & van Leeuwen, C. (2022). *Consciousness: From Assessment to Rehabilitation - Volume II*, : Frontiers in Human Neuroscience/ Frontiers in Psychology. Lausanne: Frontiers Media
263. Paramei, G.V., & van Leeuwen, C. (Eds.) (2016). *Color and Form Perception: Straddling the Boundary Research Topic: Frontiers in Human Neuroscience*. Lausanne: Frontiers Media. doi: 10.3389/978-2-88919-857-3
264. van Leeuwen, C. & Jordan, J.S. (Eds) (2015). Complexity in Brain and Cognition. *Cognitive Processing*, Special Section ,16, 315-400.
265. Raffone, A., Narayanan, S., & van Leeuwen, C. (Eds.) (2014). Understanding perceptual awareness and its neural basis. *Philosophical Transactions of the Royal Society, B.*, volume 369
266. van Leeuwen, C., Ed. (1994). The Gestalt heritage and its relevance to today's issues *Philosophical Psychology*, 7(2), Special Issue.
267. van Leeuwen, C. (1989). *Structural Memory and the Dynamics of Preference*. PhD Thesis, University of Nijmegen.

Book Chapters

268. **Batt, R.** & van Leeuwen, C. (2011). Neuroaesthetics and the art of representation. In: S. Masmoudi, D. Yun Dai, A. Naceur (Eds.): *Attention, Representation, and Human Performance: Integration of Cognition, Emotion, and Motivation*. Hove, UK: Psychology Press/Taylor & Francis. (pp. 93-105).
269. Elshout, J. & van Leeuwen, C. (1992). Protocolanalyse als methode van kennisacquisitie voor Expertsystemen (Protocol analysis as method for knowledge acquisition in expert systems). In R. Jorna & J. Simons (Eds.): *Kennis in organisaties: Theorie en Toepassing van Kennissystemen*. (Knowledge in Organizations: Theory and Applications of Expert Systems). Muiderberg: Coutinho, (pp. 154–175). (in Dutch).
270. **Lachmann, T.**, & van Leeuwen, C. (2004b). Memory-guided Inference in same-different comparison tasks. In C. Kaernbach, E. Schroeger, & H. J. Müller.(Eds.): *Psychophysics beyond sensation*. Mahwah, NJ: Erlbaum, (pp. 199–222).
271. **Plomp, G.** & van Leeuwen, C. (2007). Occlusion awaits disclosure In N. Osaka, I. Rentschler, & I. Biederman, (Eds.): *Object recognition, Attention, and Action*. Berlin, D: Springer, (pp. 13–26).
272. **Tamura, K.**, Indurkha, B., Shinohara, K., Tversky, B., & van Leeuwen, C. (2010). Minimizing cognitive load in map-based navigation: the role of landmarks. In N. Srinivasan, B.R. Kar, J. Pandey (Eds.): *Advances in Cognitive Science*, Vol. 2. Sage publishers
273. van Leeuwen, C. (2015). Hierarchical stages or emergence in perceptual integration? In J. Wagemans (Ed.), *Oxford handbook of perceptual organization*, Oxford, U.K: Oxford University Press, pp. 969–988.
274. van Leeuwen, C., (2015). Cortical Dynamics and Oscillations: What Controls what we See? In J. Wagemans (Ed.): *Oxford Handbook of Perceptual Organization*. Oxford, UK: Oxford University Press, pp. 989-1007.
275. van Leeuwen, C. (1998a). Perception. In W. Bechtel & G. Graham (Eds.): *A Companion to Cognitive Science*. Oxford, UK: Blackwell, (pp. 265–282).
276. van Leeuwen, C. (1998b). Visual perception at the edge of chaos. In J.S. Jordan (Ed.), *Systems Theories and A-priori Aspects of Perception*. Amsterdam, NL: Elsevier, (pp. 289–314.)
277. van Leeuwen, C. (1995). Task, intention, context, globality, ambiguity: More of the Same. In P. Kruse & M. Stadler (Eds.): *Ambiguity in Mind and Nature*. Berlin, Germany: Springer Verlag. (pp. 85–98).
278. van Leeuwen, C. (1992). Drawing inferences from representation structure. In H.-G. Geissler, S.W. Link & J.T. Townsend (Eds.): *Cognition, Information Processing and Psychophysics: Basic Issues*. Hillsdale, N.J.: Erlbaum, (pp. 91–103).
279. van Leeuwen, C. & Lachmann, T. (2014). Task-specificity and perceptual organization: the case of letters. In S. Gepshtein and L. Maloney (Eds.): *The Oxford Handbook of computational Perceptual Organization*. In press.

280. van Leeuwen, C. & **Nikolaev, A.R.** (2014). Coherence intervals of large-scale brain activity and perceptual organization. In S. Gepshtein, L. Maloney, & M. Singh (Eds.): *The Oxford Handbook of computational Perceptual Organization*, DOI: 10.1093/oxfordhb/9780199829347.013.3.
281. van Leeuwen, C. & **Smit, D.J.A.** (2012). Restless brains, wandering minds. In: S. Edelman, T. Fekete and N. Zach (Eds.): *Being in Time: Dynamical Models of Phenomenal Awareness*. *Advances in Consciousness Research*. Amsterdam, NL: John Benjamins PC, (pp. 121-147).
282. van Leeuwen, C., **Verstijnen, I.M.**, & Hekkert, P. (1999). Common unconscious dynamics underlie uncommon conscious effect: A case study in the iterative nature of perception and creation In J.S. Jordan (Ed.): *Modeling Consciousness across the Disciplines*. Lanham, MD: University Press of America, (pp. 179–218).
283. van Leeuwen, C., **Weis, T.**, & Lachmann, T. (2018). Perceptual Organization and Visual Target Selection. In T. Lachmann & T. Weis (Ed.): *New Stages in Human Information Processing Research; The Role of Invariants in Cognition*. New York, Routledge, (pp. TBA).

Manuscripts

284. **Li, J.**, **Rentzeperis, I.** & van Leeuwen, C. (2021). Functional and spatial rewiring jointly generate convergent-divergent units in self-organizing networks. *PloS Computational Biology*, <https://arxiv.org/abs/2103.16606>
285. **Nakatani, C.**, **Bernhard, H.**, & van Leeuwen, C. (2022). Context-dependent neural effects predict mind wandering minutes in advance. *Cognitive, Affective, and Behavioral Neuroscience*, submitted
286. **Nikolaev, A.R.**, Ehinger, B.V. Meghanathan, R.N., & van Leeuwen, C. (2022). Disentangling cognitive and oculomotor neural activity in free viewing behavior. *Journal of Vision*, submitted

keynotes, Invited addresses, Invited or Special Sessions (selection)

- 2022 ICBNA2022 International Conference on Bio-Neural Informatics. Online conference (IEEE). Keynote
- 2021 Complex and simple models of multidimensional data: from graphs to neural networks, International Workshop. Leicester, UK. Invited address
- 2018 Topology and geometry of information visualization. Workshop, Riga, Latvia. Keynote
- 2016 Computational Biomedicine. International symposium, Nizhny Novgorod, Russia. Keynote
- 2016 Soul or Brain: what makes us human? Symposium, Torun, Poland. Invited lecture
- 2015 Computational Thinking. KNAW symposium, Amsterdam N. Invited lecture
- 2015 Symposium on the 80th Birthday of H.G. Geissler. Kaiserslautern, Germany. Invited lecture
- 2013 What affordance affords. Workshop, Darmstadt, Germany. Invited lecture
- Models of consciousness and clinical implications, Leiden, NL Workshop talk and panel
- 2012 Child Development and Dyslexia. Conference, Larnaca, Cyprus. Keynote
- TIMELY Training School on Dynamical Systems for Psychological Timing and Timing in Speech Processing, Salerno, Italy. Summary keynote
- Mersey Lune Seminar (4 universities joint invited lecture series), Liverpool, UK. Invited lecture
- 2011 3rd annual meeting of Society for Computational Neuroscience. Daejeon, Korea. Keynote
- 2009 McDonnell RIKEN Symposium: The Critical Period Revisited. Wako-shi, Japan. Invited lecture
- Die Rolle der Hirnforschung in der Entwicklungs- und Lernpsychologie: Zwischen Euphorie und Ablehnung. Podiumsdiskussion (The role of brain science in developmental and educational psychology: between euphoria and rejection). Invited lecture and panel discussion with: U. Frith, M. Hasselhorn, M. Imhof, T. Lachmann, W. Schnitz (in German)
- 2008 ICP2008 Visual Expertise, Berlin, Germany, invited session convener together with N. Srinivasan
- The Enculturated Body. Symposium at the ZiF (Center for Interdisciplinary Research), Bielefeld, Germany. Invited address
- Varieties of Causation in Consciousness Studies, Workshop, Chicago IL. Invited address
- 2007 17th Annual Conference of the National Academy of Psychology (NAoP), Kanpur, India. Invited special lecture
- Fechner Day 2007 (The Annual Meeting of the *International Society of Psychophysics*) Tokyo, Japan. Invited session convener together with S. Gepshtein

- 15th Scientific convention of the society for Gestalt Theory and its Applications. Macerata, Italy.
Keynote
- 2nd Oxford/Kobe Symposium on Dyslexia in Japanese and English. Symposium, Kobe, Japan. Invited address
- 2006 Models and Prediction in Science, Science Studies, and Public Policy workshop at UCSD, San Diego, CA. Invited address
- ICSC-2006 International Conference on Spatial Cognition. Rome/Perugia, Italy. Keynote
- 2005 ENOC-05 mini-symposium Eindhoven, NL. Convener, together with Dr. M. Breakspear
- 2004 NCEI-04 Neuro-computing and evolving intelligence. Auckland, NZ. Keynote
- 2003 SNSA-03 Shanghai, China. Convener mini-symposium
- 2002 Fechner-Day (18th annual conference of the ISP). Rio de Janeiro, Brasil, invited address
- ICONIP-2002 Singapore. Invited session convener
- KES-2002 Podere d' Ombriano, Crema, Italy. Special session convener
- 2001 Fechner-Day (17th The Annual Meeting of the *International Society of Psychophysics*). Leipzig, Germany. Invited address
- 1997 CESPA lecture University of Connecticut, Storrs, CT. Invited lecture
- 1996 Leipzig Symposium on Memory. Leipzig, Germany. Invited address
- 1994 William Lowe Bryan Memorial Cognitive Science Lecture., University of Indiana, Bloomington, IN. Invited lecture
- 1993 Wilhelm Wundt Lecture, U Leipzig, Germany, Invited lecture
- International Symposium: Perceptual Multi-stability and Semantic Ambiguity, Bremen, Germany. Invited address
- 1992 Temporal code structures in sensory-cognitive information processing, Symposium at the ZiF (Center for Interdisciplinary Research). Bielefeld, Germany,. Invited address
- 1989 Domains of Mental Functioning: Attempts at Synthesis, Symposium at the ZiF (Center for Interdisciplinary Research) Bielefeld, Germany. Invited address

Faculty Colloquia (selection)

U of Allahabad, In; U of Amsterdam, NL; VU Amsterdam, NL; Humboldt U Berlin D; Florida Atlantic U, Boca Raton FL; U Virginia, Charlottesville VA; UCSD, San Diego Ca; TU, Delft, NL; U Durham, UK; RU Groningen, NL; U. Halle, D; McMasters, Hamilton O, Canada; Chinese U of Hong Kong, Ch; U of Hokkaido, Sapporo Jp; Forschungszentrum Jülich, D; TU Kaiserslautern, D; TU Kanpur, In; U Leicester, UK; RU Leiden NL; KMU/Univ of Leipzig, D; KU Leuven, B; Washington U, St. Louis MO; U of Wisconsin, Madison WI; Leibniz Institute of Neuroscience, Magdeburg D; La Trobe U, Melbourne AU; Max Planck Inst Exp Psych, Munich D; LMU Munich, D; U Nijmegen, NL; Lobachevsky U, Nizhny Novgorod, Rus., UC Northampton, UK; Kwansei Gakuin, Osaka, Jp; U Plymouth, UK; U Portsmouth, UK; Princeton, NJ; La Sapienza, Rome, It; U Sao Paulo, Sao Carlos Br; BCBL, San Sebastian, Sp; Fudan U, Shanghai Ch; U Stirling, UK; University of Surrey, UK; University of Sussex, UK; UC del Maule, Talca, Chile; Copernicus U, Torun, Pol; U Tsukuba, Jp; Nencki Institute, Warsaw, Pol; BUGH, Wuppertal D.