

Università degli Studi di ROMA “La Sapienza”

CODICE CONCORSO 2020POR014

Procedura valutativa di chiamata per n. **1 posto di Professore di ruolo di I fascia presso il Dipartimento di Ingegneria informatica, automatica e gestionale “Antonio Ruberti”** - Facoltà di Ingegneria dell'informazione, informatica e statistica

Settore concorsuale: 09/H1

Settore Scientifico Disciplinare: ING-INF/05

(D.R. n. 1728/2020 del 7/07/2020)

Curriculum Vitae of Massimo Mecella

Short biography. prof. Massimo Mecella is an associate professor [professore associato, settore scientifico disciplinare ING-INF/05] at Sapienza Università di Roma, Italy, Dipartimento di Ingegneria informatica, automatica e gestionale “Antonio Ruberti” [Department of Computer, Control and Management Sciences & Engineering], since 2015. Previously he has been assistant professor [ricercatore universitario a tempo indeterminato] in the same department since 2006. He holds national qualifications to full professor both in Computer Science [Informatica – 01/B1] and in Engineering in Computer Science [Ingegneria Informatica – 09/H1]. He received his PhD in Engineering in Computer Science [Dottore di Ricerca in Ingegneria Informatica] from Sapienza Università di Roma, Italy, in 2002. He previously studied Engineering in Computer Science [Ingegneria Informatica] at Sapienza Università di Roma, where he obtained a Laurea degree in 1998, with 110/110 cum laude.

His main research interests are in the broad area of **Information Systems Engineering**, and include Service Oriented Computing (SOC), Business Process Management (BPM), Cyber-Physical Systems (CPSs) and industrial applications of Internet-of-Things (IoT), User-centered Design (UCD) and advanced user interfaces for complex software systems, software architectures, distributed technologies and middleware, Cooperative Information Systems (CISs) and WWW-based information systems, software engineering, cybersecurity. The above topics are challenged in the *application domains of digital government and eBusiness, smart environments* (houses, buildings and offices, factories), *healthcare, cultural heritages and smart tourism, disaster/crisis response & management*. As a result of his activities, Massimo Mecella has published about **200 papers**, including **39 journal papers**, **1 authored book**, several book chapters and about **150 peer-reviewed conference and workshop papers** (including VLDB in 2005 [class 1¹ / A++], WWW in 2006 [class 1 / A++], **ICSOC in 2003 – awarded in 2013 as the most influential paper of the previous 10 years**, 2004, 2005, 2008 [class 2 / A-], **ICWS in 2007 and in 2019 – best paper award** [class 2 / A], BPM in 2007 [class 2 / A], CoopIS in 2002, 2012, 2014 [class 2 / A-], SCC in 2008, 2010 [class 2 / A-], KR in 2014 [class 1 / A+], **CAiSE in 2017** [class 2 / A] – **best paper award**).

His h-index is 36 on Google Scholar (total citations over 6000, cf. <https://scholar.google.com/citations?user=x844E6sAAAAJ>), and 26 on Scopus (total citations about 2500, cf. <https://www.scopus.com/authid/detail.uri?authorId=6602717537>).

Massimo Mecella has taught since 2002 in the Schools of Engineering and Information Engineering, Computer Science and Statistics of Sapienza. Currently he teaches Software Design [Progettazione del Software], Information Systems, and Software Engineering in the School of Information Engineering, Computer Science and Statistics [Facoltà di Ingegneria dell'informazione, Informatica e Statistica]. As of today, he has supervised **over 170 master theses**. He has been the **co-advisor of 4 PhD students** (Fabio De Rosa, Massimiliano de Leoni, Claudio Di Ciccio, and Mahmoud Sharf), he has been the **advisor of 6 PhD students** (Andrea Marrella, Alessandro Russo, Francesco Leotta, Mario Caruso, Annalisa Terracina, and Daniele Sora) and **currently** he is the **advisor of 3 PhD student** (Eleonora Bernasconi, Francesco Sapio, and

¹ For classification of papers, here we refer to GII-GRIN-SCIE (GGS) Conference Rating, cf. <http://gii-grin-scie-rating.scie.es/ratingSearch.jsf> for conferences, and to Scimago Journal Ranking, cf. <https://www.scimagojr.com/>, for articles.

Jesús Fernando Cevallos Moreno) and **co-advisor of 1 PhD student** (Philipp Samoilov). Three of them are currently assistant professors in prestigious universities in Europe², all the others have prominent roles in research institutions, public agencies and private companies.

In 2019, Massimo Mecella was short-term visiting professor at KU Leuven, Belgium, invited by prof. Estefania Serral Asensio, awarded with a specific grant for such a research visit covering travel expenses. In 2005 and 2006, Massimo Mecella was temporary research assistant (for the winter semester) at CERIAS (Center for Education and Research in Information Assurance and Security) and Department of Computer Science, Purdue University, USA, invited by prof. Elisa Bertino. In 1999, he was an internship student at Telcordia Applied Research, Telcordia Technologies, Morristown, New Jersey, USA, supervised by prof. Amjad Umar, dr. Paolo Missier, dr. Francesco Caruso.

Massimo Mecella has been the principal proposer and then **technical manager** of the European projects WORKPAD (FP6, ended in 2009) and SM4All (FP7, ended in 2011). He has also been the principal investigator for Sapienza of several Italian projects and EU ones (in FP6 and FP7), and currently he is the principal investigator for Sapienza of the H2020 EU projects FIRST and DESTINI, and principal co-investigator of the sub-unit of the ERC Advanced Grant NOTAE (PI prof. Antonella Ghignoli). He has participated in several projects. Massimo Mecella has led/co-lead also several contracts for industrial applied research, among them Fustella 4.0 for Rota Laser (still active of the value of about 140 K€), and K4G for the Italian Ministry of Justice and CINI (value of about 100 K€).

Massimo Mecella has a leading role in CINI – Consorzio Interuniversitario Nazionale per l'Informatica, being member of the National Lab on Cyber Security and of the National Lab on Smart Cities and Communities; in particular he acted till October 2019 as project manager of the SECIS project, and he is the Sapienza representative in the National Lab on Smart Cities and Communities.

Massimo Mecella is one of the founding members and acted as President in the three years 2018 – 2020, of Over Technologies, a spin-off company of Sapienza, which also delivered on the market the results of the projects SM4All and GreenerBuildings. Over currently has a turnaround of more than 2M€/year, and employs more than 25 persons, most of them talented engineers in computer science graduated in the Rome area.

Massimo Mecella has served as reviewer of project proposals for NOW, Netherlands, Regione Lombardia, Provincia autonoma di Trento. He regularly serves as EU Expert/Reviewer since 2012, both of project proposals and of financed projects, and serves as Expert for EIT – European Institute of Technology and Innovation (an EU Commission institute) for KICs assessment.

Massimo Mecella is member of the PhD Board in Engineering in Computer Science at Sapienza since 2007. He has participated to several PhD awarding committee (Roma Tre, Modena and Reggio Emilia, Camerino, University of Groningen), and recently has been part of a selection committee for RTD-B at Politecnico di Torino.

Massimo Mecella is regularly appointed by Government Agencies for ICT in the Public Administrations, notably in 2005 he was one of the authors of the specifications of SPCoop – Sistema Pubblico di Cooperazione by CNIPA, in 2018/19 he worked with AgID and Team Digitale on the specifications of the Modi 2018 – Modello di Interoperabilità 2018, and in 2018–2021 he is working with Dipartimento della Funzione Pubblica on the technological specifications for FOIA.

Massimo Mecella, due to its institutional role, serves in selection committee when appointed; in particular in 2019 served in the selection committee for the assignment of the tender for the GNTN - Giochi Numerici a Totalizzatore Nazionale (tender of more than 200 M€), and in 2020 he is serving in the selection

² Massimiliano de Leoni is an RTD-B in the Università di Padova, Andrea Marrella is RTD-B in Sapienza Università di Roma and Claudio Di Ciccio, after being assistant professor in Vienna University of Economics and Business, is currently RTD-B in Sapienza Università di Roma, Dipartimento di Informatica (Computer Science).

committee for the personnel with expertise in ICT for the Italian Parliament – Lower House [Camera dei Deputati] (more than 300 candidates).

Massimo Mecella will be General Chair of BPM 2021. He has been General co-Chair of CAiSE 2019, Program Chair of SEBD 2019, General co-Chair of Intelligent Environments 2018, Program Chair of AVI 2018. In 2015 he has been General Chair of SOCA 2015, General Chair of MobiWis 2015, Local Organizing Chair of OBD 2015 and FiCloud 2015 and Local Organizing Chair of SEBD 2015. He has been PC co-Chair of SOCA 2013. He collaborated in managing WISE 2003, CoopIS 2001 and DQCIS 2003 Workshop (proceedings chair), has been workshop chair of BPM 2008, tutorial chair of CAiSE 2018, has been co-Chair of 1st International Workshop on Knowledge-intensive Business Processes (KiBP 2012). Since 2017, he is co-Chair of BP-Meet-IoT – Business Processes Meet IoT, a workshop in conjunction with the BPM conference.

He is regularly PC member of the most important conferences of his research areas, including ICSOC, SCC, ICWS, CoopIS, ODBASE, BPM, WISE, WETICE, CEC/EEE (now IEEE Conference on Electronic Commerce Technology), ISCRAM. Over the last 10 years, he has served more than 100 Program Committees.

In the period 2008—2013 he has been co-chair of the tracks on geo-science and technology (GIS&T) of the International Conference on Information Systems for Crisis Response and Management (ISCRAM). In 2007 he has been co-chair of the session on support for flexible service and data management platforms for crisis response at the same ISCRAM. He regularly serves as reviewers of more than 45 different top-ranked journals.

1. Education

Ph.D. in Engineering in Computer Science [Dottorato di Ricerca in Ingegneria Informatica]

Sapienza Università di Roma, Italy, 2002.

Dissertation: *Cooperative processes and eServices*

Advisor: Prof. Carlo Batini, thesis committee: Prof. Silvio Salza, Prof. Roberto Baldoni, external reviewers: Prof. Alfonso Fuggetta, Prof. Ahmed K. Elmagarmid

Laurea degree in Engineering in Computer Science [Laurea in Ingegneria Informatica]

Sapienza Università di Roma, Italy, 1998.

Dissertation: *Modellazione e Tecnologie ad Oggetti Distribuiti per l'Accesso e l'Integrazione dei Sistemi Legacy. Esperienze Progettuali di Wrapping e Suggerimenti Metodologici nel contesto della Rete Unitaria della Pubblica Amministrazione*

Advisor: Prof. Carlo Batini, co-advisor: Dr. Antonio Massari, marks: 110/110 cum laude

2. Appointments and working experiences

| | |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| September 2015 – present | <p>Associate professor [Professore associato] at Sapienza Università di Roma</p> <p>Dipartimento di Ingegneria informatica, automatica e gestionale Antonio Ruberti</p> <p>SSD: ING/INF-05</p> <p>CFU taught each year: between 15 and 19 (depending on the specific year)</p> |
| November 2006 – August 2015 | <p>Assistant professor [Ricercatore] at Sapienza Università di Roma</p> <p>Dipartimento di Ingegneria informatica, automatica e gestionale Antonio Ruberti</p> <p>SSD: ING/INF-05</p> <p>CFU taught each year: between 9 and 12 (depending on the specific year)</p> |
| March 2005 – August 2006 | <p>Post-doc [titolare borsa post-dottorato] at Sapienza Università di Roma</p> <p>Dipartimento di Informatica e Sistemistica Antonio Ruberti</p> <p>Supervisor: Prof. Tiziana Catarci</p> <p>Research appointment: <i>Service Oriented Computing: synthesis and orchestration of composite services</i></p> |
| August 2005 – December 2005 and November 2006 | <p>Temporary research assistant at Purdue University, USA</p> <p>CERIAS and Department of Computer Science</p> <p>Supervisor: Prof. Elisa Bertino</p> <p>Research appointment: <i>Security in Web services and workflows</i></p> |

November 2004 – February 2005

Scientific/technical collaborator at Sapienza Università di Roma on various projects/contracts

November 2002 – October 2004

Research fellow [titolare di assegno di ricerca] at Sapienza Università di Roma
UORII, Latina campus
Supervisor: Prof. Marco Schaerf
Research appointment: *eCommerce systems*

June 1999 – August 1999

Internship student at Telcordia Technologies (formerly Bellcore), USA
Supervisor(s): Prof. Amjad Umar, Dr. Francesco Caruso, Dr. Paolo Missier
Research appointment: *Middleware technologies & (semi-) automatic generation of software architectures*

3. Research

The research activity is currently performed in the context of the areas on *Data Management and Service oriented Computing* and *Human-Computer Interaction* of the Dipartimento di ingegneria informatica, automatica e gestionale Antonio Ruberti, Sapienza Università di Roma. Massimo Mecella is affiliated to DASIlab (Data and Service Integration Laboratory – <http://www.dis.uniroma1.it/~dasilab>), CRAS (Centro Ricerca Aerospaziale Sapienza - <http://cras.ing.uniroma1.it/>), CIS (Cyber Intelligence and Information Security Research Center – <http://www.cis.uniroma1.it>) and CINI – Cyber Security National Lab (<https://cybersecnatlab.it/>) and CINI – Smart Cities & Communities National Lab (<https://www.conorzio-cini.it/index.php/en/national-laboratories/laboratorio-smart-cities>), being the delegate of Sapienza in this lab.

Massimo Mecella's research concentrates on *Information Systems Engineering*:

- Service Oriented Computing
 - Distributed orchestration of services
 - Compatibility and substitutability of services
 - Security in Web Services
 - Automatic composition, one of the founders of the Roman Model
 - Embedded services, services on mobile devices
- Process Management
 - Automatic adaptiveness
 - Process management through logic-based approaches (Situation Calculus and IndiGolog)
 - Process mining
 - Artful/Knowledge-intensive processes
- CPSs (Cyber-Physical Systems) and IoT (Internet-of-Things)
 - Mining of user activities/habits from sensor logs
 - Platforms for energy management (monitoring and saving)
 - Architectures based on Sens-aaS (sensor-as-a-service)
 - Factories 4.0
 - Indoor localization
- User-centered design for complex systems
- Advanced user interfaces
 - Mobile, immersive, augmented interfaces
 - Gamification approaches
 - Chatbots
- CIS - Cooperative Information Systems and WWW-based information systems
 - Data quality
 - Collaborative design through visual tools for data-streams
- Software architectures, distributed technologies and middleware
 - Fault-tolerant systems and middleware platforms for them
 - Security in distributed and complex (software) systems
 - Component-based and service-based architectures for digital libraries
 - P2P architectures for Internet-TV (IPTV)

- Software engineering
 - Wrapping of legacy systems
 - Workflow management for software development processes
- Geo-Information Science & Technology (GIS&T)
- Cybersecurity
 - Web intelligence
 - Security governance
 - Security modeling

The previous topics are challenged in the application domains of digital government and eBusiness, smart environments (houses, buildings and offices, factories), healthcare, cultural heritages and smart tourism, disaster/crisis response & management.

Massimo Mecella has published **more than 200 papers** (see the complete list at the end of the document). His bibliometric indexes are as follows (all indexes calculated on 20 July 2020):

| Metric (on Google Scholar) | Value |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| h-index (cf. the profile https://scholar.google.com/citations?user=x844E6sAAAAJ) | 36 |
| m-quotient (ratio between the h-index and the number of years of activities since the first paper in 2000, also known as normalized h-index) | 1,71 |
| Total citations | 6074 |

| Metric (on Scopus) | Value |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| h-index (cf. the profile http://www.scopus.com/authid/detail.url?authorId=6602717537) | 26 |
| Total citations | 2490 |

Notably, the paper Daniela Berardi, Diego Calvanese, Giuseppe De Giacomo, Maurizio Lenzerini, Massimo Mecella: **Automatic Composition of E-services That Export Their Behavior**. Proc. ICSOC 2003, doi: **10.1007/978-3-540-24593-3_4** has been awarded at ICSOC 2013 (Berlin, Germany, December 2013) as the **last 10 years (2003 - 2012) most influential paper on service oriented computing**. The paper has over 560 citations (data source Google Scholar).

Moreover, the paper Pierluigi Plebani, Andrea Marrella, Massimo Mecella, Marouan Mizmizi, Barbara Pernici: **Multi-party Business Process Resilience By-Design: A Data-Centric Perspective**. Proc. CAiSE 2017, doi: **10.1007/978-3-319-59536-8_8** has been awarded as **best paper** at CAiSE 2017 (Essen, Germany, June 2017).

Finally, **the paper Donatella Firmani, Francesco Leotta, Massimo Mecella: On Computing Throttling Rate Limits in Web APIs through Statistical Inference. Proc. ICWS 2019, doi: 10.1109/ICWS.2019.00075 has been awarded as best paper** at ICWS 2019 (Milan, Italy, July 2019).

Massimo Mecella has substantially been involved in the education of young researchers. He has co-supervised 4 PhD students (Fabio De Rosa³, Massimiliano de Leoni⁴, Claudio Di Ciccio⁵, Mahmoud Sharf⁶), he has supervised 6 PhD students (Andrea Marrella⁷, Alessandro Russo⁸, Francesco Leotta⁹, Mario Caruso¹⁰, Annalisa Terracina¹¹, and Daniele Sora¹²) and currently he is the supervisor of 3 PhD student (Eleonora Bernasconi, Francesco Sapio, Jesús Fernando Cevallos Moreno) and co-supervisor of 1 PhD student (Filipp Samoilov).

Massimo Mecella is member of ACM and IEEE (affiliated with Computer Society and Systems, Man and Cybernetics Society).

³ Previously working for a company on Service Oriented Architectures and now for CINI – Consorzio Interuniversitario Nazionale per l'Informatica, as DPO – Data Protection Officer and manager of a huge contract for the security of the Justice system (SECIS contract).

⁴ Previously fixed-term assistant professor at TU/e, Netherlands, and now RTD-B in Università di Padova, Italy.

⁵ Previously assistant professor at Wirtschaftsuniversität Wien, Austria, and now RTD-B in Sapienza Università di Roma, Dipartimento di informatica.

⁶ Working in a Germany IT company as software architect.

⁷ Previously post-doc at Sapienza Università di Roma, and now RTD-B in Sapienza Università di Roma, Italy.

⁸ Now research fellow at the Institute of Cognitive Science and Technologies (ISTC) – Semantic Technology Laboratory (STLab) of the National Council of Research (CNR), Italy.

⁹ Previously post-doc and now RTD-A in Sapienza Università di Roma, Italy

¹⁰ Previously R&D director at Over Technologies, a spin-off of Sapienza, and now research fellow at the Institute of Cognitive Science and Technologies (ISTC) – Semantic Technology Laboratory (STLab) of the National Council of Research (CNR), Italy.

¹¹ Now professor in the Italian high school system and PI of the SPATIO project, financed by ASI/ESA, for the building of the Italian office of the European Space Education Resource Office.

¹² Now working in the R&D office of Over technologies a spin-off of Sapienza, Italy.

4. Fund raising activities and projects/contracts

Here is a list of past and current research projects in which Massimo Mecella had a leadership role:

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| 01/01/2017 – ongoing (up to 31/12/2021) | Principal Investigator for Sapienza unit | FIRST (H2020-734599, RISE project) |
| | | Financing to Sapienza: about 130K€ |
| | | The project aims at investigating, through secondments and visits, methods, techniques and approaches for virtual and digital factories (a.k.a. Industry 4.0). Sapienza is involved in SOC- and BPM-related topics |
| 01/07/2018 – ongoing (up to 30/06/2023) | Principal co-investigator (together with prof. Tiziana Catarci) for the sub-unit dealing with technologies | NOTAE (ERC-2017-AdG NOTAE) |
| | | Financing to the sub-unit of DIAG: about 180K€ |
| | | The project, PI prof. Antonella Ghignoli of Sapienza, aims at investigating notary symbols and their value in ancient manuscripts, and in building an open archive of such symbols, with novel querying interfaces and pattern-matching features |
| 01/01/2015 – 30/06/2018 | Principal co-investigator (together with prof. Marina Righetti) of the PiTecnoBio/Sapienza unit | NEPTIS (PON_03PE_00214_3) |
| | | Financing to PiTecnoBio/Sapienza unit: about 300K€ |
| | | The project aims at delivering novel technologies for smart tourism. The Sapienza unit was in charge of content creation (through the Dipartimento di Storia dell'arte e spettacolo) and the investigation of innovative approaches based on gamification, social signal processing and mobile apps |
| 02/10/2018 – 25/01/2020 | Principal investigator for Sapienza | EcoDigit (DTC Lazio) |

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| | unit | Financing to DIAG: about 45K€ |
| | | The project, in the context of the DTC Lazio (Distretto e Centro Eccellenza Regione Lazio per i Beni Culturali) aims at investigating a middleware architecture. The DIAG unit is in charge of the SOA-related aspects |
| 01/01/2019 – 31/12/2019 | Principal investigator for the DIAG unit | SPATIO (ASI/ESA project) Financing to DIAG: about 60K€ The project aims at building the Italian office of the European Space Education Resource Office. The DIAG unit is in charge of the ICT platform, both for content delivery and gamified approaches to learning |
| 01/09/2014 – 31/10/2017) | Principal Investigator for Sapienza unit | VOICE (FP7-621137, FP7 CIP project) Financing to Sapienza: about 215K€ The projects aims at building and validation and online open-incubation ecosystem. The Sapienza unit is involved in the data integration and content retrieval modules, as well in the mining techniques |
| 01/09/2010 – 31/10/2013 | Principal investigator for the Sapienza/CINI units | Greener Buildings (FP7-258888, FP7 R&D STREP project) Financing to Sapienza/CINI: about 230K€ (divided as 170/30K€) The projects applies SOAs and learning techniques to building automation in order to optimize the energy consumptions of appliances maintaining inhabitants comfort. The Sapienza/CINI unit is involved in the overall architecture and in the |

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| | | composition of services offered by devices |
| 01/10/2010 – 30/09/2014) | Principal co-investigator (together with prof. Tiziana Catarci) for the Sapienza unit | <p>Smart Vortex (FP7-257899, FP7 R&D IP project)</p> <p>Financing to Sapienza: about 330K€</p> <p>The project aims at developing a novel collaborative platform for data streams and their utilization in industrial engineering. The role of the Sapienza unit is the study and development of the user layer of the platform</p> |
| 01/10/2010 – 30/06/2013 | Principal investigator for the Sapienza unit | <p>Brindisys (Italian AriSLA project)</p> <p>Funding to SapienzaA: about 80K€</p> <p>The project applies BCIs and mobile technologies, in the context of a service oriented architectures, in order to provide a new communication and home control device to ASL patients</p> |
| 01/09/2008 – 31/08/2011 | <p>Technical Manager¹³ and principal proposer (the proposal ranked 2nd in the call in which was financed)</p> <p>Project manager: prof. Roberto Baldoni</p> | <p>SM4All (FP7-224332, FP7 R&D STREP project)</p> <p>Overall funding from EU: 2.995K€ Funding to Sapienza: about 570K€</p> <p>The project applies BCIs, service composition and planning, service oriented architectures to the field of home automation in order to design next-generation technologies for AAL and home automation</p> |
| 01/09/2006 – 31/08/2009 | Technical Manager and principal | WORKPAD (FP6-2005-IST-5- |

¹³ The technical manager basically is the technical and scientific coordinator of the project. As reported in the DoW – Annex I of the project “[...] a *Technical Manager (TM)* who will be responsible for the technical direction, and progress of the project. Massimo Mecella from UOR will be the SM4All / WORKPAD Technical Manager. The Technical Manager will [...] co-ordinate the technical work carried out, keeping strictly to the pre-defined timetable; monitor the technical roll-out of the work-plan and adopt actions to correct deviations.”

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| | proposer (the proposal ranked 3 rd in the call in which was financed) Project manager: prof. Tiziana Catarci | 034749, FP6 R&D STREP project) Overall funding from EU: 1.850K€ Funding to Sapienza: about 315K€ The project applies process management on mobile devices, geo-awareness and data integration to the field of emergency management |
| 01/01/2006 – 30/04/2009 | Co-principal investigator (together with prof. Roberto Baldoni) for Sapienza unit | SemanticGOV (FP6-2004-IST-4-027517, FP6 R&D STREP project) Financing to Sapienza: about 240K€ The Sapienza unit was mainly responsible for automatic service composition of Semantic Web services in the context of eGovernment. |
| 01/11/2005 – 30/04/2009 | Co-principal investigator (together with prof. Tiziana Catarci and prof. Roberto Baldoni) for the Sapienza unit | eG4M (Italian FIRB 2005) Financing to Sapienza: about 220K€ The Sapienza unit was mainly responsible for middleware and service oriented architectures in a complex platform for eGovernment in Mediterranean countries |
| 05/11/2002 – 04/07/2006 | Principal investigator of the WP2 Technical and managerial assistant of the Sapienza Unit coordinator prof. Tiziana Catarci One of the core (out of 5 persons) proposers and proposal writers | MAIS (Italian FIRB 2001) Financing to Sapienza: about 1.200K€ / financing to WP2: about 230K€ The WP2 was mainly responsible for automatic service composition techniques in the context of a complex platform for multi-channel, mobile and adaptive information systems |
| 01/05/2002 – 30/10/2005 | Co-principal investigator (together with prof. Roberto Baldoni) for | EU-PUBLI.com (IST-2001-3521, FP5 R&D STREP project) |

the Sapienza unit

Financing to Sapienza: about 150K€

The Sapienza unit was responsible for techniques and platforms for distributed orchestration on pan-European eGovernment services

04/12/2001 – 03/03/2004

Co-principal investigator (together with prof. Maurizio Lenzerini) for the Sapienza unit

VISPO (Italian Fondo Strategico 2000)

One of the core (out of 3 persons) proposers and proposal writers

Financing to Sapienza: about 50K€

The Sapienza unit was in charge of orchestration of Web services for virtual enterprises

Massimo Mecella has also worked in projects/contracts with companies and public entities, in particular:

- Knowledge-4-Giustizia (K4G), for the Italian Ministero della Giustizia and CINI, for the definition of the datalake and analytics application of the Ministry; the contract started in 2019, will end in 2021 and the value for Sapienza is of about 100K€. The role is responsible for the Sapienza unit, and vice-coordinator of the whole CINI group, consisting of 5 units.
- Fustella 4.0, for Rota Laser, for the investigation and development of an Industry 4.0-enabled system for the packaging industries; the contract started in 2018 and will end in late 2020 for a value of about 140K€.
- ARCA, for TSP/LazioInnova, for the development of a platform for smart tourism based on knowledge graphs and storytelling approaches; he is the principal investigator, the contract being started in 2018 and ending in 2020 for a value of about 110K€.
- Assessment of SIE118, for LazioCrea, for the assessment of the ARES 118 information system; he is the principal investigator, the contract lasting the first 6 months of 2019. He is also the responsible of a collaboration agreement with LazioCrea, in the context of which to start different contracts upon specific needs.
- Accademia delle Autonomie, for ANCI/ANPI, for a learning module about the Italian Agenda Digitale and open data/service initiatives; he has been the principal investigator and main proposer of the contract.
- FIGO, for NESEA/IAD, for the investigation of process/data mining techniques applied to specific industrial scenarios (including telcos); he has been the principal investigator (the contract was of about 110K€ and spanned 2016/2017).
- Technology Transfer Portal, for CRAS – Centro Ricerca Aereospazio Sapienza, in the context of the FILAS-RU-2014-1058 - Laboratori teorico sperimentali a supporto delle applicazioni spaziali delle industrie laziali; he has been the leader of one of the WPs.
- XASMOS, for Leonardo Company, for the investigation of Web intelligence techniques; he has been the leader of the WP about text mining and ontologies.
- SECIS, for CINI/Ministero della Giustizia, for the investigation of the cyber-security of Ministero della Giustizia, and the definition of the security plans of the different organizations under the

responsibility of the Ministero; he has been the project manager of the contract for CINI – Centro Interuniversitario Nazionale per l'Informatica till late 2019.

- UWWTD, together with Prof. Marco Schaerf, for ISPRA, for the study of a geo-based collaboration platform to be used during periodic water quality recognitions.
- DesigNet, together with prof. Tiziana Catarci, for various companies (e.g., IGuzzini, Teuco, Mercantini, ecc.) financed by an "Italia 2015" project, for the study of interoperability architectures and tools to be used for eContract management and automatic market negotiation and promotion.
- PIA Calabria, for Herzum Software, for the study of an eGovernment SOA-based platform; he was the principal investigator of the Sapienza unit.
- MINSAL, together with prof. Tiziana Catarci and Domenico Lembo, for the feasibility study and the architectural design of the new portal of the Italian Ministry of Health. The project also involved other Departments from Sapienza, and Massimo Mecella was the technical manager of the whole project (funding to Sapienza: 300K€ for 1 year of activities).
- U.P.R. (Uffici Provinciali Reingegnerizzati), together with Prof. Marco Schaerf, for the set-up of the eGovernment service infrastructure and portal of the Province of Latina.
- VAS, together with Prof. Roberto Baldoni, for Selex SeMa, for the set-up of a civil security infrastructure for people and object monitoring and alerting.
- GENESIS, together with Proff. Marco Cadoli and Giuseppe Santucci, for CRMPA, for the use of workflow technologies in software development processes.
- METIS, under the supervision of Prof Giorgio Ausiello, for TRS, for the validation and testing of a software architecture, based on Java middleware, for air traffic control.
- Web-component Architecture, for AMA Roma, for the design of the software architecture for the information system of the company.

Finally, Massimo Mecella has been financed in the last years by Sapienza internal grants for promotion of the research activities, specifically:

- FARI 2008, about € 7K, for promoting proposals of EU projects. In particular, Greener Buildings and Smart Vortex have been promoted through this grant;
- FARI 2010, about € 7K, for promoting proposals of EU projects;
- METRO, about € 13K, for investigating the use of adaptive management of processes for supporting teams on the field. Massimo Mecella has been the principal investigator;
- TESTMED, about € 24K, for application of process management techniques to the DEA of Policlinico Umberto I hospital. Massimo Mecella has been the principal investigator;
- SUPER, about € 14K, for continuing the development and application of the TESTMED platform. Massimo Mecella has been the principal investigator.
- IT-SHIRT, about 35K, for investigating novel techniques and platform in the fashion industry, based on crowdsourcing and AR/VR. Massimo Mecella is principal co-investigator with Tiziana Catarci (the EU proposal this grant is based upon was coordinated by Massimo Mecella, but Tiziana Catarci was the main proposer for the Sapienza grant)

Notably, in two multidisciplinary Sapienza grants (HeartVision – TrombosiRetinica, and SironiApp), even if led by other colleagues (prof. Stefania Basili and prof. Eliana Billi), Massimo Mecella has played a major role in all the technical developments, by leading the investigation and development of the platforms/apps supporting the projects.

The following table summarizes the funding and project activities:

| Type of project / role | Number |
|--------------------------------------------------------|--------|
| EU project / technical manager of the whole consortium | 2 |
| EU project / site leader | 3 |
| EU project / site co-leader | 4 |
| EU project / participant | 1 |
| National project / site leader | 3 |
| National project / site co-leader | 4 |
| Sapienza grant / principal investigator | 5 |
| Sapienza grant / principal co-investigator | 1 |
| Contract / principal investigator | 6 |
| Contract / co-leader and/or involvement | 11 |

5. Technology transfer and related activities

Massimo Mecella is among the founders of Over Technologies (www.overttechnologies.com), a spin-off of Sapienza. Over was founded in September 2012 as an exploitation of the FP7 EU projects SM4All and GreenerBuildings. In summer 2014 it obtained a series A round of financing of 1M€ from public and private investors in Italy. On April 2014, for the event “New Frontiers for European Entrepreneurs - Stimulating Digital Entrepreneurship” (in the context of the recently launched initiative of the EU Innovation Radar) Over was identified as one of the 26 top innovators stemming from EU projects. In the period January 2018 – June 2020, Massimo Mecella was president of Over. Currently Over has a turnaround of about 2.5M€ and more than 25 employers, and among its customers there are major banks in Italy, including UBI, Monte Paschi, BNL.

Massimo Mecella served in 2012 and in 2013 as EU Expert/Reviewer for the project proposals of the Research for the Benefit of SMEs Calls (FP7-SME-2012 and FP7-SME-2013), and as Reviewer of financed projects in FP7 and H2020 since 2013 (CareStore, SeaClouds, CHOReVOLUTION, RECAP, UNICORN, DECIDE, RADON). In July – August 2020 he will serve as EU Expert/Reviewer for the project proposals of the call ICT-40-2020.

Massimo Mecella has been appointed by EIT – European Institute of Technology and Innovation (an Institute of the European Commission) as expert for the assessment of the IT architecture of the grant management system in 2015, and as expert for the evaluation of different KICs (Business Plan exercises and Grant Report exercises) in 2016 – 2020.

Moreover, Massimo Mecella has served as proposal reviewers for NOW (a kind of National Research Agency), Netherlands, Regione Lombardia, Italy, Regione Campania, Italy, Provincia autonoma di Trento, Italy.

Notably, Massimo Mecella has been collaborating with CNIPA/DigitPA (in 2005) and nowadays with AgID in the definition of the Italian Government Interoperability Framework, specifically SPCoop – Sistema Pubblico di Cooperazione (he was one of the authors, cf. [https://docs.italia.it/italia/piano-triennale-ict/lg-modellointeroperabilita-docs/it/bozza/index.html](https://web.archive.org/web/20100503004738/http://www.cnipa.gov.it:80/site/it-IT/Attivit%C3%A0/Sistema_Pubblico_di_Connettivit%C3%A0_(SPC)/Servizi_infr astrutturali_di_interoperabilit%C3%A0,_cooperazione_ed_accesso_(SICA)/Specifiche_e_requisiti_funzionali_del_SPCoop) and Modi 2018 – Modello di Interoperabilità 2018 (again he is one of the authors, cf. <a href=)).

In 2019, Massimo Mecella was appointed as member of the selection committee for the tender GNTN – Giochi Numerici a Totalizzatore Nazionale of Agenzia dei Monopoli, value of the tender about 200M€.

Finally, Massimo Mecella is collaborating with Dipartimento della Funzione Pubblica in the FOIA initiative, in particular in the specification of the technical rules for Registro degli Accessi and adoption of the Protocollo Informatico. He is one of the appointed members of the Centro di Competenza FOIA (CdC FOIA).

All the activities have been always conducted in accordance with the regulations (national and Sapienza's) for appointments by public bodies to full-time professors.

6. Academic activities & invited talks

Massimo Mecella is well known inside his research areas. In particular, he has been invited to keep various seminars and talks by colleagues and in important conferences and workshops, serves in the Program Committees of important conferences and workshops, serves as reviewers for important journals.

In the following some of them are reported:

- 2019 – Seminar “Hands-on Process Mining for Smart Environments” @ KU Leuven, Belgium, invited by prof. Estefania Serral Asensio
- 2019 – Tutorial “Hands-on Process Mining for Smart Environments” (together with dr. Francesco Leotta) @ 15th International Conference on Intelligent Environments (IE 2019) (Rabat, Marocco)
- 2019 -- Tutorial “IoT for BPMers” (together with dr. Francesco Leotta and prof. Andrea Marrella) @ 17th International Conference on Business Process Management (BPM 2019) (Vienna, Austria)
- 2018 – Seminar “Applying Process Mining to Models in Smart Spaces” @ Middlesex University London, UK, invited by prof. Juan Augusto
- 2017 – Seminar “Challenges in Knowledge-intensive Processes. Mining from Semi-structured Information and Providing Run-time Automated Adaptation” @ North Caucasus Federal University (NCFU) Stavropol, Russia, invited by prof. Mezentseva Oksana Stanislavovna
- 2016 – Dagstuhl Seminar 16191 “Fresh Approaches to Business Process Modeling”, organized by Richard Hull, Agnes Koschmider, Hajo A. Reijers, and William Wong at the Leibniz Center for Informatics in Germany, cf. <http://drops.dagstuhl.de/opus/volltexte/2016/6696/>
- 2014 – Seminar “Applying Process Management Methods & Techniques to Pervasive and Smart Environments” @ Wirtschaftsuniversität Wien, Austria, invited by prof. Jan Mendling
- 2014 – Seminar “Challenges in Dynamic Processes” @ University of Ulm, Germany, invited by prof. Manfred Reichert
- 2013 – Keynote “Challenges in Knowledge-intensive Processes: Mining for Semi-structured Information and Providing Run-time Automated Adaptation” @ 2nd International Workshop on Knowledge-intensive Business Processes (KiBP 2013), SOCA 2013
- 2012 – Seminar “Services and Processes in (Some) eGovernment Projects - An Italian Point of View (and Beyond)” @ University of Groningen, SASleg project final workshop, invited by prof. Marco Aiello
- 2012 – Seminar “Advanced User Interfaces, Services and Processes: Making Sense of All of Them Together” @ XEROX Europe Research Center (Grenoble, France), invited by Gregorio Convertino and Antonietta Grasso
- 2008 – Keynote “Adaptive Process Management – Issues and (Some) Solutions” @ 3rd IEEE Workshop on Agile Cooperative Process-Aware Information Systems (ProGility 2008), WETICE 2008
- 2008 – Seminar (together with Prof. Paolo Bottoni) “Resources as Synchronizers, Rules as Resources for Adaptive Workflow in MANETs” @ Technische Universität Berlin (Berlin, Germany), invited by prof. Hartmut Ehrig and dr. Kathrin Hoffmann
- 2008 – Seminar “Information Systems for Emergency Management – Research Hints and Examples” @ Politecnico di Milano (Milan, Italy), invited by prof. Barbara Pernici

- 2007 – Seminar (together with prof. Tiziana Catarci) “Emergency Management through Peer-to-Peer Architectures” @ Università di Madrid Carlos III (Madrid, Spain), invited by prof. Ignacio Aedo Cuevas
- 2007 – Serie of seminars in the context of the school INFWEST “Coordination of Web Services - Models, Methods and Tools” @ University of Jyväskylä (Tampere, Finland) (<http://www.jyu.fi/it/laitokset/cs/en/infwest/seminars/webservices>).
- 2006 – Tutorial “Automatic Web Service Composition” (together with prof. Giuseppe De Giacomo) @ 2006 IEEE International Conference on Services Computing (SCC 2006) (Chicago, IL, USA)
- 2005 – Tutorial “Basis for Automatic Web Service Composition” (together with prof. Giuseppe De Giacomo and dr. Daniela Berardi) @ 15th International World Wide Web Conference (WWW 2005) (Chiba, Japan)
- 2005 – Tutorial (part of it on service composition) “Semantic Web Services” (together with dr. Daniela Berardi) @ 2nd European Semantic Web Conference (ESWC 2005) (Heraklion, Grecia)
- 2004 – Tutorial “Service Composition: Technologies, Methods and Tools for Synthesis and Orchestration of Composite Services and Processes” (together with prof. Giuseppe De Giacomo) @ 2nd International Conference on Service Oriented Computing (ICSOC 2004) (New York, NY, USA)

As far as organization and chairship of conferences and workshops:

- In 2021 he will serve as:
 - General Chair of 19th International Conference on Business Process Management (BPM 2021)
 - PC co-Chair of 17th International Conference on Intelligent Environments (IE 2021)
- In 2020 he is serving as:
 - Program co-Chair of 4th International Workshop on Business Processes meet Internet-of-Things (BP-Meet-IoT 2020) at BPM 2020
- In 2019 he has served as:
 - General co-Chair of 31st Conference on Advanced information Systems Engineering (CAiSE 2019)
 - Program co-Chair of 27th Italian Symposium on Advanced Database Systems (SEBD 2019)
 - Program co-Chair of 3rd International Workshop on Business Processes meet Internet-of-Things (BP-Meet-IoT 2019) at BPM 2019
- In 2018 he has served as:
 - Program Chair of 2018 ACM Conference on Advanced Visual Interfaces (AVI 2018)
 - General co-Chair of 2018 Intelligent Environments (IE 2018)
 - Tutorial co-Chair of 30th Conference on Advanced information Systems Engineering (CAiSE 2018)
 - Program co-Chair of 2nd International Workshop on Business Processes meet Internet-of-Things (BP-Meet-IoT 2018) at BPM 2018
 - Program co-Chair of Multidisciplinary Symposium on ICT Research in Russian Federation and Europe (REMS 2018)
- In 2017 he has served as:
 - Program co-Chair of 1st International Workshop on Business Processes meet Internet-of-Things (BP-Meet-IoT 2017) at BPM 2017

- Program co-Chair of 1st International Workshop on the Practice of the Open Web (practi-Open 2017) at ICWE 2017
- In 2016 he has served as Co-Chair of the Data Driven Innovation Workshop, at ACM WebSci 2016
- In 2015 he has served as:
 - General Chair of 2015 IEEE Conference on Service Oriented Computing and Applications (SOCA 2015)
 - General Chair of 12th International Conference on Mobile Web and Intelligent Information Systems (MobiWis 2015)
 - Local Organizing Chair of International Conference on Open and Big Data (OBD 2015) and 3rd International Conference on Future Internet of Things and Cloud (FiCloud 2015)
 - Local Organizing Chair of 23rd Italian Symposium on Advanced Database Systems (SEBD 2015)
 - Doctoral Consortium Co-Chair of CHIItaly 2015
- In 2014 he has been Workshop Co-Chair of 2014 IEEE Conference on Service Oriented Computing and Applications (SOCA 2014)
- In 2013 he has been the PC Co-Chair of 2013 IEEE Conference on Service Oriented Computing and Applications (SOCA 2013)
- In 2013 he has been the Publicity Co-Chair of 11th International Conference on Business Process Management (BPM 2013)
- In 2012 he has been Co-Chair of 1st International Workshop on Knowledge-intensive Business Processes (KiBP 2012)
- In the period 2008—2013 he has been the co-chair of the tracks on geo-science and technology (GIS&T) at the International Conference on Information Systems for Crisis Response and Management (ISCRAM)
- In 2008 he has been Workshop Co-Chair at the 6th International Conference on Business Process Management (BPM 2008)
- In 2007 he has been co-chair of the session on support for flexible service and data management platforms for crisis response at ISCRAM 2007
- He has collaborated at the 17th IEEE International Workshops on Enabling Technologies: Infrastructures for Collaborative Enterprises (WETICE 2008), supporting local chairs in all logistic issues (being the event hosted at Dipartimento di Informatica e Sistemistica della Sapienza) and acting as co-chair of the demo/showcase session
- In 2005 acted as financial chair of the 2005 International Symposium on Applications and the Internet (SAINT 2005)
- In 2003 has been publication/proceeding chair of 4th International Conference on Web Information Systems Engineering (WISE 2003)
- In 2001 has been publication/proceeding chair of the 9th International Conference on Cooperative Information Systems (CoopIS 2001)
- In 2003 has been publication/proceeding chair of the ICDT International Workshop on Data Quality in Cooperative Information Systems (DQCIS 2003)

In 2020, he has served in the PC of (partial list) IEEE BigDataService 2020 - IEEE International Conference on Big Data Service and Applications, IEEE ICWS 2020 - IEEE International Conference on Web Services, IEEE SCC 2020 - IEEE International Conference on Services Computing, ICSOC 2020 – International Conference on

Service Oriented Computing. Over his career, limiting to the last 10 years, he has served as PC member in more than 110 conferences / workshops.

He serves / has served as reviewer for (partial list) ACM Transactions on Software Engineering and Methodology, ACM Transaction on Computer-Human Interaction, ACM Transaction on Sensor Networks, ACM Transactions on Autonomous and Adaptive Systems, ACM Transactions on the Web, ACM Transaction on Internet Technology, ACM Transactions on Management Information Systems, IEEE Transaction on Data & Knowledge Engineering, IEEE Internet Computing, IEEE Pervasive Computing, IEEE Transactions on Parallel and Distributed Systems, IEEE Transactions on Services Computing, IEEE Transaction on Software Engineering, IEEE Access, IEEE Computer, IEEE Transactions on Big Data, IEEE Transactions on Learning Technologies, IEEE Transactions on Systems, Man, and Cybernetics: Systems, VLBD Journal, International Journal on Cooperative Information Systems, Information Systems, International Journal of Distributed and Parallel Databases, Software - Practice and Experience, International Journal of Distributed Sensor Networks, Service Oriented Computing and Applications Journal, Journal of Information Science, Journal of Systems and Software, Journal of Information and Software Technology, Journal of Visual Languages and Computing, Journal of Information Technology and Politics (JITP) (formerly Journal on e-Government), Theoretical Computer Science Journal, International Journal of Communication Systems, Journal of Computational Sciences, Computer Standards & Interfaces, Data and Knowledge Engineering Journal, International Journal of Business Process Integration and Management, International Journal of Production Research, Multimedia Tools and Applications, Journal of Business Research, MDPI Computers, MDPI Future Internet, MDPI Sensors, Artificial Intelligence in Medicine, Journal of Software: Evolution and Process.

He has served as middle-term reviewer for scholarships for the Rochester Institute of Technology, USA, and in the selection committee for a position of professor in the University of Groningen, the Netherlands (2019).

He has served as secretary member of an evaluation committee for two positions of RTD-B at Politecnico di Torino (Procedura di selezione a complessivi due posti per ricercatore universitario a tempo determinato linea b) - SC 09/H1, SSD ING-INF/05, c.i. 03/18/P/RB. Bando D.R. 604/2018 del Politecnico di Torino).

Finally since several years (from 2007) he is member of the PhD Board in Engineering in Computer Science at Sapienza Università di Roma (membro del Collegio di Dottorato in Ingegneria Informatica). He has been member of several PhD Awarding Committees (University of Groningen, the Netherlands, Università di Modena e Reggio Emilia, Università di Camerino, Università di Roma Tre).

7. Teaching and services

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| 2019/2020 | <ul style="list-style-type: none"> • Progettazione del Software – sottomodulo di Laboratorio – 3 CFU / Bachelor level • Software Engineering – 6 CFU / Master level • Enterprise Information Systems – 6 CFU / Master level <p>In addition, seminars to be hosted in the following courses</p> <ul style="list-style-type: none"> • Modulo ING-INF/05 di Valutazione, controllo e qualità dei servizi biomedici – 1 CFU / Bachelor level <p>Courses and the seminars @ Sapienza Università di Roma, School of Information Engineering, Computer Science and Statistics. The Modulo di Valutazione, controllo e qualità dei servizi biomedici @ Sapienza Università di Roma, Bachelor degree in Dietistica.</p> |
| 2018/2019 | <ul style="list-style-type: none"> • Progettazione del Software – sottomodulo di Laboratorio – 6 CFU (3 CFU on 2 classes) / Bachelor level • Software Engineering – 6 CFU / Master level • Enterprise Information Systems – 6 CFU / Master level <p>In addition, seminars to be hosted in the following courses</p> <ul style="list-style-type: none"> • Seminars in Advanced Topics in Engineering in Computer Science – coordinator of the course and 1 CFU / Master level • Modulo ING-INF/05 di Valutazione, controllo e qualità dei servizi biomedici – 1 CFU / Bachelor level <p>Courses and the seminars @ Sapienza Università di Roma, School of Information Engineering, Computer Science and Statistics. The Modulo di Valutazione, controllo e qualità dei servizi biomedici @ Sapienza Università di Roma, Bachelor degree in Dietistica.</p> |
| 2017/2018 | <ul style="list-style-type: none"> • Programmazione Orientata agli Oggetti – 6 CFU / Bachelor level • Advanced Programming – 3 CFU / Master level • Process and Service Modeling & Analysis – 6 CFU / Master level • Seminars in Advanced Topics in Engineering in Computer Science – coordinator of the course and 1 CFU / Master level <p>In addition, seminars to be hosted in the following courses</p> <ul style="list-style-type: none"> • Modulo ING-INF/05 di Valutazione, controllo e qualità dei servizi biomedici – 1 CFU / Bachelor level <p>Courses @ Sapienza Università di Roma, School of Information Engineering, Computer Science and Statistics. The Modulo di Valutazione, controllo e qualità dei servizi biomedici @ Sapienza Università di Roma, Bachelor degree in Dietistica.</p> |
| 2016/2017 | <ul style="list-style-type: none"> • Programmazione Orientata agli Oggetti – 6 CFU / Bachelor level • Advanced Programming – 3 CFU / Master level • Processes and Services Modeling & Analysis – 3 CFU / Master level • Seminars in Software and Services for the Information Society – coordinator of the course and 3 CFU / Master level <p>In addition, seminars to be hosted in the following courses</p> <ul style="list-style-type: none"> • Modulo ING-INF/05 di Valutazione, controllo e qualità dei servizi biomedici – 1 CFU / Bachelor level |

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|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2015/2016 | <p>Courses @ Sapienza Università di Roma, School of Information Engineering, Computer Science and Statistics. The Modulo of Valutazione, controllo e qualità dei servizi biomedici @ Sapienza Università di Roma, Bachelor degree in Dietistica.</p> <ul style="list-style-type: none"> • Laboratorio di Architetture Software – 3 CFU / Bachelor level • Advanced Programming – 3 CFU / Master level • Processes and Services Modeling & Analysis – 3 CFU / Master level • Seminars in Software and Services for the Information Society -- 6 CFU / Master level <p>Courses @ Sapienza Università di Roma, School of Information Engineering, Computer Science and Statistics.</p> |
| 2014/2015 | <ul style="list-style-type: none"> • Progetto di Applicazioni Software – 6 CFU / Bachelor level • Advanced Programming – 3 CFU / Master level <p>In addition, seminars to be hosted in the following courses</p> <ul style="list-style-type: none"> • Seminars in Software and Services, Module on Business Process Modeling and Management – 3 CFU / Master level • Elective in Software and Services, Module on Service Integration – 1 CFU / Master level <p>Both courses and the seminars @ Sapienza Università di Roma, School of Information Engineering, Computer Science and Statistics</p> |
| 2013/2014 | <ul style="list-style-type: none"> • Esercitazioni di Progettazione del Software – 3 CFU / Bachelor level • Progetto di Applicazioni Software – 6 CFU / Bachelor level <p>In addition, seminars hosted in the following courses</p> <ul style="list-style-type: none"> • Seminars in Software and Services, Module on Business Process Modeling and Management – 3 CFU / Master level • Elective in Software and Services, Module on Service Integration – 1 CFU / Master level • Human-Computer Interaction – 1 CFU / Master level <p>Both courses and the seminars @ Sapienza Università di Roma, School of Information Engineering, Computer Science and Statistics</p> |
| 2012/2013 | <ul style="list-style-type: none"> • Esercitazioni di Progettazione del Software – 3 CFU / Bachelor level • Progetto di Applicazioni Software – 6 CFU / Bachelor level <p>In addition, seminars hosted in the following courses</p> <ul style="list-style-type: none"> • Seminars in Software and Services, Module on Business Process Modeling and Management – 3 CFU / Master level • Elective in Software and Services, Module on Service Integration – 1 CFU / Master level • Human-Computer Interaction – 1 CFU / Master level <p>Both courses and the seminars @ Sapienza Università di Roma, School of Information Engineering, Computer Science and Statistics</p> |
| 2011/2012 | <ul style="list-style-type: none"> • Esercitazioni di Progettazione del Software – 3 CFU / Bachelor level • Progetto di Applicazioni Software – 6 CFU / Bachelor level <p>In addition, seminars hosted in the following courses:</p> <ul style="list-style-type: none"> • Seminars in Software and Services, Module on Business Process Modeling |

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| | <p>and Management – 3 CFU / Master level</p> <ul style="list-style-type: none"> • Elective in Software and Services, Module on Service Integration – 1 CFU / Master level • Human-Computer Interaction – 1 CFU / Master level <p>Both courses and the seminars @ Sapienza Università di Roma, School of Information Engineering, Computer Science and Statistics</p> |
| 2010/2011 | <ul style="list-style-type: none"> • Esercitazioni di Progettazione del Software – 3 CFU / Bachelor level • Service Oriented Architectures [Architetture Software Orientate ai Servizi] – 6 CFU / Master level <p>In addition, seminars hosted in the following courses:</p> <ul style="list-style-type: none"> ○ Seminars in Software and Services [Seminari in Software e Servizi], 1 CFU / Master level <p>Both courses and the seminars @ Sapienza Università di Roma, School of Information Engineering, Computer Science and Statistics</p> |
| 2009/2010 | <ul style="list-style-type: none"> • Progettazione del Software – 6 CFU / Bachelor level • Service Oriented Architectures [Architetture Software Orientate ai Servizi] – 6 CFU / Master level <p>In addition, seminars hosted in the following courses:</p> <ul style="list-style-type: none"> ○ Seminars in Software and Services [Seminari in Software e Servizi], 1 CFU / Master level <p>Both courses and the seminars @ Sapienza Università di Roma, School of Information Engineering</p> |
| 2008/2009 | <ul style="list-style-type: none"> • Progettazione del Software – 6 CFU / Bachelor level • Service Oriented Architectures [Architetture Software Orientate ai Servizi] – 6 CFU / Master level <p>Both courses @ Sapienza Università di Roma, School of Information Engineering</p> |
| 2007/2008 | <ul style="list-style-type: none"> • Progettazione del Software – 5 CFU / Bachelor level @ Sapienza Università di Roma, Latina campus • Progettazione del Software 2 – 5 CFU / Master level @ Sapienza Università di Roma, School of Engineering <p>In addition, seminars hosted in the course Seminars in Software Engineering [Seminari di Ingegneria del Software] – 1 CFU / Master level @ Sapienza Università di Roma, School of Engineering</p> |
| 2006/2007 | <ul style="list-style-type: none"> • Progettazione del Software – 5 CFU / Bachelor level @ Sapienza Università di Roma, Latina campus • Progettazione del Software 2 – 5 CFU / Master level @ Sapienza Università di Roma, School of Engineering <p>In addition, seminars hosted in the course Seminars in Software Engineering [Seminari di Ingegneria del Software] – 1 CFU / Master level @ Sapienza Università di Roma, School of Engineering</p> |
| 2005/2006 | <ul style="list-style-type: none"> • Progettazione del Software – 5 CFU / Bachelor level @ Sapienza Università di Roma, Latina campus • Progettazione del Software 2 – 5 CFU / Master level @ Sapienza |

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| | <p>Università di Roma, School of Engineering</p> <p>In addition, seminars hosted in the course Seminars in Software Engineering [Seminari di Ingegneria del Software] – 1 CFU / Master level @ Sapienza Università di Roma, School of Engineering</p> |
| 2004/2005 | <ul style="list-style-type: none"> • Progettazione del Software – 5 CFU / Bachelor level @ Sapienza Università di Roma, Latina campus • Progettazione del Software 2 – 5 CFU / Master level @ Sapienza Università di Roma, School of Engineering |
| 2003/2004 | <ul style="list-style-type: none"> • Progettazione del Software – 5 CFU / Bachelor level @ Sapienza Università di Roma, Latina campus • Progettazione del Software 2 – 5 CFU / Master level @ Sapienza Università di Roma, School of Engineering |
| 2002/2003 | <ul style="list-style-type: none"> • Progettazione del Software 2 – 5 CFU / Master level @ Sapienza Università di Roma, School of Engineering • Sistemi Informativi – 100 hours / Master level @ Sapienza Università di Roma, School of Engineering • Fondamenti di Informatica 2 – 5 CFU / Bachelor level @ Sapienza Università di Roma, Latina campus |
| 2001/2002 | <ul style="list-style-type: none"> • Sistemi Informativi – 100 hours / Master level @ Sapienza Università di Roma, School of Engineering • Calcolatori Elettronici – 5 CFU / Bachelor level @ Sapienza Università di Roma, Latina campus • Sistemi Operativi – Teaching assistant on the C/UNIX programming – 2 CFU / Master level @ Sapienza Università di Roma, School of Engineering |
| 2000/2001 | <ul style="list-style-type: none"> • Sistemi Operativi – Teaching assistant on the C/UNIX programming – 2 CFU / Master level @ Sapienza Università di Roma, School of Engineering • Sistemi Informativi – Teaching assistant / Master level @ Sapienza Università di Roma, School of Engineering |
| 1999/2000 | <ul style="list-style-type: none"> • Sistemi Informativi – Teaching assistant / Master level @ Sapienza Università di Roma, School of Engineering |
| 1998/1999 | <ul style="list-style-type: none"> • Sistemi Informativi – Teaching assistant / Master level @ Sapienza Università di Roma, School of Engineering |

For teaching support, Massimo Mecella has written some teaching publications (chapters in books), in Italian:

- R. Baldoni, M. Mecella: Sicurezza nelle Reti e nei Sistemi Distribuiti, Manuale di Informatica (4a edizione) (G. Cioffi e V. Falzone, a cura di), Edizioni IL SOLE 24 ORE Edagricole, 2002.
- A. Massari, M. Mecella: Il Trattamento dei Legacy Systems, Sistemi Informativi Volume 5 (C. Batini, B. Pernici, e G. Santucci, a cura di), Franco Angeli, 2001 (formerly in C. Batini, G. Santucci (a cura di):

Sistemi Informativi per la Pubblica Amministrazione: Metodologie e Tecnologie, Scuola Superiore della Pubblica Amministrazione, Roma, 2000).

- A. Massari, M. Mecella, E. Melis, G. Santucci: Architetture dei Sistemi Distribuiti, Sistemi Informativi Volume 5 (C. Batini, B. Pernici, and G. Santucci, a cura di), Franco Angeli, 2001 (formerly in C. Batini, G. Santucci (a cura di): Sistemi Informativi per la Pubblica Amministrazione: Metodologie e Tecnologie, Scuola Superiore della Pubblica Amministrazione, Roma, 2000).

Massimo Mecella has served the Department / University in which he works / worked with various roles:

- secretary of the Associazione Italiana Tecnologie Avanzate Basate su concetti Orientati ad Oggetti (TABOO, <http://www.taboo-it.org/>);
- Management of lessons and exams schedule for the Master degree in the years 2002/03 and 2003/04;
- Operative responsible of the DASIIlab and of the Master students' lab (TA1 and TA2) (from 2007 still ongoing);
- **Delegate of the Board for the curricula of the Bachelor and Master students (from 2008 still ongoing);**
- **Member of the Commissione Infrastrutture e Sicurezza Informatica (until 2013).** In this role he has designed and coordinated the development of a system for managing WiFi connections of guests and temporary visitors; he has promoted and coordinated and worked on the migration of the email service from an internal system to Google Apps for Education.
- **Member of the Commissione Biblioteca (2013 -- 2016).**
- **Member of the Board of the Department (Giunta) since the accademic year 2009/10. He finished his mandate on 31/10/2013** (after, on the basis of current rules, he was no more eligible). In this role he served as responsible of the voice and data mobile services of the Department, and technical interface with the telecom providers. Indeed he acted on this role also previously since 2007.
- Software architect of the InfoSapienza project for the SOA-based Integration Platform and Portal (2012 – 2014)
- **Member of the InfoSapienza Board (Membro designato dal Rettore per il Comitato InfoSapienza, from June 2018)**
- **Member of the Commissione Spazi (2019 – still ongoing)**

8. Publication Record

| Type of publication | Number |
|--------------------------------------------------|------------|
| Journals | 39 |
| <i>Journals in the last 10 years (2011–2020)</i> | 24 |
| <i>Journals in the last 5 years (2016–2020)</i> | 13 |
| Conferences and workshops | 153 |
| <i>Conferences and workshops (last 10 years)</i> | 82 |
| <i>Conferences and workshops (last 5 years)</i> | 36 |

Journals

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- [J37] M. Mecella, M. Scannapieco, A. Virgillito, R. Baldoni, T. Catarci, C. Batini, The DaQuinCIS Broker: Querying Data and Their Quality in Cooperative Information Systems, JOURNAL ON DATA SEMANTICS, VOL. 1, P. 208-232, ISSN: 1861-2032, DOI: 10.1007/978-3-540-39733-5_9.
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- [B1] T. Catarci, M. Leva, M. Mecella: Visual Query Languages for Data Stream. Encyclopedia of Database Systems (2nd ed.) 2018
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Bullettin and News (peer-reviewed)

- [N1] D. Lembo, M. Mecella, M. Vacca, BPM4ED: A Research Project for Designing 21st-Century Schools. *BULLETIN OF THE TECHNICAL COMMITTEE ON LEARNING TECHNOLOGY*, vol. 15, p. 14-17, ISSN: 2306-0212, 2013
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- [C2] Donya Rooein, Devis Bianchini, Francesco Leotta, Massimo Mecella, Paolo Paolini, Barbara Pernici: Chatting About Processes in Digital Factories: A Model-Based Approach. *BPMDS/EMMSAD@CAiSE 2020*: 70-84
- [C3] Miguel Ceriani, Eleonora Bernasconi, Massimo Mecella: A Streamlined Pipeline to Enable the Semantic Exploration of a Bookstore. *IRCDL 2020*: 75-81
- [C4] Maria Boccuzzi, Tiziana Catarci, Luca Deodati, Andrea Fantoli, Antonella Ghignoli, Francesco Leotta, Massimo Mecella, Anna Monte, Nina Sietis: Identifying, Classifying and Searching Graphic Symbols in the NOTAE System. *IRCDL 2020*: 111-122
- [C5] Silvestro Veneruso, Lauren S. Ferro, Andrea Marrella, Massimo Mecella, Tiziana Catarci: A game-based learning experience for improving cybersecurity awareness. *ITASEC 2020*: 235-242

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- [C6] Simone Agostinelli, Andrea Marrella, Massimo Mecella: Research Challenges for Intelligent Robotic Process Automation. Business Process Management Workshops 2019: 12-18
- [C7] Francesco Leotta, Andrea Marrella, Massimo Mecella: IoT for BPMers. Challenges, Case Studies and Successful Applications. BPM 2019: 16-22
- [C8] Simone Agostinelli, Fabrizio Maria Maggi, Andrea Marrella, Massimo Mecella: Verifying Petri Net-Based Process Models using Automated Planning. EDOC Workshops 2019: 44-53
- [C9] Tiziana Catarci, Donatella Firmani, Francesco Leotta, Federica Mandreoli, Massimo Mecella, Francesco Sapiro: A Conceptual Architecture and Model for Smart Manufacturing Relying on Service-Based Digital Twins. ICWS 2019: 229-236
- [C10] Donatella Firmani, Francesco Leotta, Massimo Mecella: On Computing Throttling Rate Limits in Web APIs through Statistical Inference. ICWS 2019: 418-425
- [C11] Francesco Leotta, Massimo Mecella: Hands-on Process Mining for Smart Environments. Intelligent Environments (Workshops) 2019: 5-6
- [C12] Nicola Bicocchi, Giacomo Cabri, Francesco Leotta, Federica Mandreoli, Massimo Mecella, Francesco Sapiro: An Architectural Approach for Digital Factories. SEBD 2019

2018

- [C13] Francesco Leotta, Massimo Mecella, Daniele Sora: Visual Analysis of Sensor Logs in Smart Spaces: Activities vs. Situations. BigDataService 2018: 105-114
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- [C15] Ronen I. Brafman, Giuseppe De Giacomo, Massimo Mecella, Sebastian Sardiña: Service Composition in Stochastic Settings. AI*IA 2017: 159-171
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- [C17] Daniele Sora, Francesco Leotta, Massimo Mecella: An Habit Is a Process: A BPM-Based Approach for Smart Spaces. Business Process Management Workshops 2017: 298-309
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- [C20] Simone Porreca, Francesco Leotta, Massimo Mecella, Stavros Vassos, Tiziana Catarci: Accessing Government Open Data Through Chatbots. ICWE Workshops 2017: 156-165
- [C21] Thomas Collerton, Andrea Marrella, Massimo Mecella, Tiziana Catarci: Route Recommendations to Business Travelers Exploiting Crowd-Sourced Data. MobiWIS 2017: 3-17
- [C22] Simone Porreca, Francesco Leotta, Massimo Mecella, Tiziana Catarci: Chatbots as a Novel Access Method for Government Open Data. SEBD 2017: 122

- [C23] Francesco Leotta, Massimo Mecella, Daniele Sora, Giovanni Spinelli: Pipelining user trajectory analysis and visual process maps for habit mining. SmartWorld/SCALCOM/UIC/ATC/CBDCom/IOP/SCI 2017: 1-8

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- [C24] Cucari Giovanni, Leotta Francesco, Mecella Massimo, Vassos Stavros (2016). Collecting human habit datasets for smart spaces through gamification and crowdsourcing. In: Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). vol. 9599, p. 208-217, Springer Verlag, ISBN: 9783319402154, ita, 2015, doi: 10.1007/978-3-319-40216-1_22
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- [C30] Annalisa Terracina, Riccardo Berta, F. Bordini, R. Damilano, Massimo Mecella: Teaching STEM through a Role-Playing Serious Game and Intelligent Pedagogical Agents. ICALT 2016: 148-152
- [C31] Andrea Marrella, Massimo Mecella, Sebastian Sardiña: An Adaptive Process Management System Implementation Based on Situation Calculus, Indigolog and Classical Planning. IJCAI 2016: 4258-4259
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- [C33] Dirk Schnelle-Walka, Lior Limonad, Tobias Grosse-Puppenthal, Joel Lanir, Florian Müller, Massimo Mecella, Kris Luyten, Tsvi Kuflik, Oliver Brdiczka, Max Mühlhäuser: SCWT: A Joint Workshop on Smart Connected and Wearable Things. UI Companion 2016: 3-5
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