

Vincenzo Suriani

Education

2020 - Present, Sapienza University of Rome

PhD Program in Computer Engineering

2015 - 2019, Sapienza University of Rome

MEng in Artificial Intelligence and Robotics

2009 - 2015, Sapienza University of Rome

BS in Engineering in Computer Science and Control Engineering

Experience

October 2015 - present, Team Leader, SPQR Team¹

Team Development Leader in the RoboCup team of the Department of Computer, Control, and Management Engineering Antonio Ruberti at Sapienza University of Rome, involved in RoboCup competitions since 1998. Detailed achievements:

- Participation in **RoboCup 2022²**, held in Bangkok (Thailand) with SPQR Team.
- Participation in **RoboCup 2021³**, with SPQR Team.
- Participation in **RoboCup 2019⁴**, held in Sydney (Australia) with SPQR Team.
- Participation in **RoboCup Asia Pacific Invitation Tournament 2019⁵**, held in Tianjin (China) with SPQR Team.
- Participation in **Robotic Hamburg Open Workshop (RoHOW) 2018⁶**, held in Hamburg (Germany) with SPQR Team.
- Participation in **RoboCup 2018⁷**, held in Montréal (Canada) with SPQR Team.
- Participation in **German Open 2017⁸**, held in Magdeburg (Germany) with SPQR Team.
- Participation in **RoboCup 2016⁹**, held in Leipzig (Germany) with SPQR Team.

June 2022, Research School

International Artificial Intelligence in Bergen Research School. University of Bergen ¹⁰

November 2019 - October 2020, Researcher Assistant

Department of Computer, Control, and Management Engineering Antonio Ruberti at Sapienza University of Rome

¹<http://spqr.diag.uniroma1.it/>

²<https://2022.robocup.org/>

³<https://2021.robocup.org/>

⁴<https://2019.robocup.org/>

⁵<http://robocupap.org/>

⁶<https://rohow.de/2018/en/>

⁷<http://www.robocup2018.org/>

⁸<https://www.robocupgermanopen.de/>

⁹<http://www.robocup2016.org/>

¹⁰<https://researchschool.w.uib.no/>

Vincenzo Suriani
suriani@diag.
uniroma1.it
Citizenship
Italian

February 2014 - October 2015, *Team Member, SPQR Team*

Detailed achievements:

- Participation in **RoboCup 2015**¹¹, held in Hefei (China) with SPQR Team which compete in SPL league with NAO robots.
- Participation in **RoboCup 2014**¹², held in João Pessoa (Brazil) with SPQR Team as described above.

Publications

- (2022) *E. Bartoli, F. Argenziano, V. Suriani, D. Nardi*
Knowledge Acquisition and Completion for Long-Term Human-Robot Interactions using Knowledge Graph Embedding
AIxIA 2022
- (2022) *E. Musumeci, V. Suriani, E. Antonioni, D. Nardi, D.D. Bloisi*
Adaptive Team Behavior Planning using Human Coach Commands
RoboCup Symposium 2022
- (2022) *A. Pennisi, D.D. Bloisi, V. Suriani, D. Nardi, A. Facchiano, A.R. Giampetruzzi*
Skin Lesion Area Segmentation Using Attention Squeeze U-Net for Embedded Devices
Journal of Digital Imaging, 1-14
- (2021) *V. Suriani, S. Kaszuba, S.R. Sabbella, F. Riccio, D. Nardi*
S-AvE: Semantic Active Vision Exploration and Mapping of Indoor Environments for Mobile Robots
2021 European Conference on Mobile Robots (ECMR), 1-8
- (2021) *E. Antonioni, P. Bisconti, N. Massa, D. Nardi, V. Suriani*
Questioning Items' Link in Users' Perception of a Training Robot for Elders
International Conference on Social Robotics, 509-518
- (2021) *V. Suriani, E. Antonioni, F. Riccio, D. Nardi*
Coordination and Cooperation in Robot Soccer
International Conference on Computational Collective Intelligence, 215-227
- (2021) *E. Antonioni, V. Suriani, D. Nardi, D.D. Bloisi*
Learning from the Crowd: Improving the Decision Making Process in Robot Soccer using the Audience Noise
RoboCup Symposium Best Paper Award 2021
- (2021) *S. Kaszuba, S.R. Sabbella, V. Suriani, F. Riccio, D. Nardi*
RoSmEEry: Robotic Simulated Environment for Evaluation and Benchmarking of Semantic Mapping Algorithms
arXiv preprint arXiv:2105.07938

¹¹<http://www.robocup2015.org/>

¹²<http://www.robocup2014.org/>

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[suriani@diag.
uniroma1.it](mailto:suriani@diag.uniroma1.it)
Citizenship
Italian

- (2021) *E. Antonioni, V. Suriani, F. Riccio, D. Nardi*
Game Strategies for Physical Robot Soccer Players: A Survey
IEEE Transactions on Games
- (2020) *E. Antonioni, V. Suriani, N. Massa, D. Nardi*
Autonomous and Remote Controlled Humanoid Robot for fitness
training
- (2019) *V. Di Giambattista, M. Fawakherji, V. Suriani, D.D. Bloisi*
On Field Gesture-based Robot-to-robot Communication with NAO
Soccer Players
Robot World Cup, 367-375
- (2017) *D. Bloisi, F. Del Duchetto, T. Manoni, V. Suriani.*
Machine Learning for RealisticBall Detection in RoboCup SPL
arXiv preprint arXiv:1707.03628
- (2016) *D. Albani, A. Youssef, V. Suriani, D. Nardi, and D.D.
Bloisi.*
A Deep Learning Approach for Object Recognition with NAO Soccer
Robots
Robot World Cup, 392-403

Languages

Mother Tongue

- Italian

Other Language(s)

- English *Intermediate*
- French *Basic*

Software Development Skills

Programming

- Java
- Matlab
- Python
- Javascript
- Android
- C++
- LaTeX
- Prolog
- HTML

Frameworks

- BHuman
- ROS
- Tree.js
- NAOqi for NAO
- Wordpress

Other Software Developed

- Android application published on the PlayStore with more than 6000 downloads and more that 1300 active users:
<https://play.google.com/store/apps/details?id=com.vincapps.vincenzo.yrordermanager&hl=it>
- WebGL online FPS game:
<http://www.visur.altervista.org/PlanetEscape.html>
- MATLAB experience:
 - Simulation of UAV Systems
 - Implementation of Image Compression Algorithms
- ROS Experience:
 - Development of ROS modules for humanoid control
 - Development of ROS environments for the European Projects:
 - Eurobench (Madrob and Beast)
 - Sciroc 2: Episode 1 and Episode 3
- Steganography:
 - Manipulation of PDF document for information embedding
 - Manipulation of JPEG, PNG, TIFF images for information encoding and decoding