Curriculum Vitae of ANDREA STERBINI

ANDREA STERBINI is assistant professor at the Computer Science Dept. of the Sapienza University of Rome since 1999, where he teaches the courses of Programming fundamentals and Methods of Computer Science Education: Analysis. His main research interests are in Bayesian modeling of peer-assessment, e-learning, collaborative and wiki systems, open-source software, constraint programming, algorithms and evolutionary robotics. He has been a core member of the TWiki open-source wiki project.

Education

1987 Laurea in Physics, 110/110, Sapienza University of Rome, Italy.

1994 Ph.D. in Computer Science, Sapienza University of Rome, Italy. Title: "2-Thresholdness e sue implicazioni: Sincronizzazione con PVchunk e congettura Ibaraki-Peled".

1996-98 Post-doc scholarship in Computer Science, Sapienza University of Rome, Italy.

1999-now: Researcher at the Computer Science Dept., Sapienza University of Rome, Italy

Participation to EU Projects

Andrea currently is part of the EU project **"Mastering 9 Conversations: Helping refugee entrepreneurs extend their network and tell their business story"** for the empowering of refugees through business practices learning. He has been part of the earlier EU project **"9 Conversations: network building for self-employment of refugees"**. He has been workpackage leader in the EU project QUIS **"QUality, Interoperability and Standards in e-learning"** (e-learning Project 2004 – 3538/001-1). Andrea has also been involved in the EU project "**UnderstandIT**" (Leonardo project 2010-1-NO1-LEO05-01839) as the developer and manager of the Community of Practice site for the project (workpackage 6).

Program committee member of International Conferences

ICWL 2019	18th International Conference on Web-based Learning
ICWL 2017	16th International Conference on Web-based Learning
ITHET'16	IEEE Information Technology Based Higher Education and Training
ICWL 2016	15th International Conference on Web-based Learning
WALCOM 2016	10th International Workshop on Algorithms and Computation
ITHET 2015	14th International Conference on Information Technology Based Higher Education and Training
ITHET 2014	Information Technology Based Higher Education and Training
ITHET 2012	11th International Conference on Information Technology Based Higher Education and Training
Didamatica2012	Didamatica 2012
ITHET 2011	10th International Conference on Information Technology Based Higher

Awards

The paper **"Q2A-I: A Support Platform for Computer Programming Education, Based on Automated Assessment and Peer Learning"** has won the best paper award at the **ICWL 2018** conference.

Teaching experience

	Teacher of
2008, 2017-now	Fondamenti di Programmazione
2018-now	Methods of computer Science Education: Analysis
2016-2023	Computer architectures (on-line tutor for Unitelma univ.)
2009-2018	Computer architectures
2003, 2006-2008	Progettazione di Sistemi Digitali
2006-2018	Legolab: robotics laboratory with Java and Lego Mindstorms
2005-2006	Programmazione e Algoritmi per il Master di Bioinformatica
2003-2005	Perl e BioPerl per il Master di Bioinformatica
	Teaching assistant of
2010	Esercitazioni di Progettazione di Sistemi Digitali
2010	Esercitazioni di Metodologie di Programmazione
2005	2 Esercitazioni di Programmazione 2
2003-2006	Fondamenti di Informatica 1 (consorzio NETTUNO)
2004-2005	Laboratorio di Programmazione 2
2004	Esercitazioni di Architetture 2
2002-2003	Esercitazioni di Programmazione 1
2001	Esercitazioni di Architetture 2
2001	Laboratorio di programmazione: Architetture
2000	Esercitazioni di Architetture 1
1999	Esercitazioni di Programmazione 1

Other work experience

Andrea has many years of experience as a freelance programmer in various projects and languages:
- Irrigation planning (Java/Drools/Optaplanner)
- Text analysis and classification (Python)
- Digital Signature application (C++ and Java)
- Smartcard libraries (C++ and Java)
- Database user interface (Smalltalk)
- Desktop Publishing converter (Prolog)

Refereed Papers in International Conferences and Journals

Battistini T., Isaia N., Sterbini A., Temperini M. (2022). **DrPython–WEB: A Tool to Help Teaching Well-Written Python Programs**. In: Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). LECTURE NOTES IN COMPUTER SCIENCE, vol. 13230, p. 277-286, GEWERBESTRASSE 11, CHAM, CH-6330, SWITZERLAND:Springer Science and Business Media Deutschland GmbH, ISBN: 978-3-031-12428-0, ISSN: 0302-9743, online, doi: 10.1007/978-3-031-12429-7_20

Limongelli, C.; Sciarrone, F.; Sterbini, A.; Temperini, M. (2021). **A Community of Practice for the Development of Teachers' TEL Skills: A Social Network Analysis Perspective**, pp. 171-181. Proc. of International Research and Innovation Forum, RIIFORUM 2020 Athens; Greece. Doi: 10.1007/978-3-030-62066-0_14, Scopus: 2-s2.0-85102643576.

Badea, G.; Popescu, E.; Sterbini, A.; Temperini, M. (2020). **Exploring the Peer Assessment Process Supported by the Enhanced Moodle Workshop in a Computer Programming Course,** pp. 124-131. Proc. of 9th International Conference in Methodologies and Intelligent Systems for Technology Enhanced Learning, MIS4TEL 2019, Ávila; Spain. Doi: 10.1007/978-3-030-23884-1_16, Scopus: 2-s2.0-85068700883.

De Marsico, M.; Sciarrone, F.; Sterbini, A.; Temperini, M. (2020). **An Environment to Model Massive Open Online Course Dynamics**, pp. 74-89. Proc. of the 10th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management, IC3K 2018, Seville; Spain. Doi: 10.1007/978-3-030-49559-6_4, Scopus: 2-s2.0-85088253087.

Sterbini, A.; Temperini, M.; Vittorini, P. (2020), **A protocol for simulated experimentation of automated grading systems**, pp. 259-270. Proc. 10th International Conference in Methodologies and Intelligent Systems for Technology Enhanced Learning, MIS4TEL 2020, L´Aquila; Italy. Doi: 10.1007/978-3-030-52538-5_26, Scopus: 2-s2.0-85089313344.

Florentina Condrea, Luca Cuoco, Tony Alexandru Dincu, Elvira Popescu, Andrea Sterbini, Marco Temperini (2019). **Pragmatic game authoring support for an adaptive Competence-Based Educational System**. In: Methodologies and Intelligent Systems for Technology Enhanced Learning, 8th International Conference. ADVANCES IN INTELLIGENT SYSTEMS AND COMPUTING, vol. 804, p. 230-238, Springer, ISBN: 978-3-319-98871-9, ISSN: 2194-5357, Toledo; Spain, doi: 10.1007/978-3-319-98872-6_27

Badea, Gabriel, Popescu, Elvira, Sterbini, Andrea, Temperini, Marco (2019). **Integrating enhanced peer assessment features in Moodle Learning Management System**. In: Foundations and Trends in Smart Learning. LECTURE NOTES IN EDUCATIONAL TECHNOLOGY, p. 135-144, Singapore:Springer, ISBN: 978-981-13-6907-0, ISSN: 2196-4963, Denton; USA, doi: 10.1007/978-981-13-6908-7_19

Maria De Marsico, Filippo Sciarrone, Andrea Sterbini, Marco Temperini (2018). **Educational Data Mining for Peer Assessment in Communities of Learners**. In: Anna Visvizi;Miltiadis D. Lytras;Linda Daniela. The Future of Innovation and Technology in Education: Policies and Practices for Teaching and Learning Excellence. p. 203-217, Emerald Publishing Limited, ISBN: 978-1-78756-556-2, doi: 10.1108/9781787565555

Simone Papandrea, Andrea Sterbini, Marco Temperini, Elvira Popescu (2018). **Q2A-I: A Support Platform for Computer Programming Education, Based on Automated Assessment and Peer**

Learning. In: Advances in Web-Based Learning – ICWL 2018. LECTURE NOTES IN COMPUTER SCIENCE, vol. 11007, p. 3-13, Springer Verlag, ISBN: 9783319965642, ISSN: 1611-3349, Chiang Mai; Thailand, doi: 10.1007/978-3-319-96565-9_1

De Marsico M., Sciarrone F., Sterbini A., Temperini M. (2018). **Peer assessment and knowledge discovering in a community of learners**. In: IC3K 2018 - Proceedings of the 10th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management. vol. 1, p. 119-126, SciTePress, ISBN: 978-989-758-330-8, Seville; Spain, doi: 10.5220/0007229401190126

Badea, Gabriel, Popescu, Elvira, Sterbini, Andrea, Temperini, Marco (2018). **A service-oriented architecture for student modeling in peer assessment environments**. In: Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). LECTURE NOTES IN ARTIFICIAL INTELLIGENCE, vol. 11284, p. 32-37, Springer Verlag, ISBN: 9783030035792, ISSN: 0302-9743, Chiang Mai; Thailand, doi: 10.1007/978-3-030-03580-8_4

DE MARSICO, Maria, Giarlini, Emanuele, STERBINI, Andrea, TEMPERINI, Marco (2017). **Automatic student group generation for collaborative activities based on the zone of proximal development**. In: Emerging Technologies for Education. LECTURE NOTES IN COMPUTER SCIENCE, vol. 10108, p. 496-506, Springer Verlag, ISBN: 978-3-319-52835-9, ISSN: 0302-9743, Rome; Italy, 2016, doi: 10.1007/978-3-319-52836-6_53

DE MARSICO, Maria, STERBINI, Andrea, TEMPERINI, Marco (2017). **Improving peer assessment modeling of teacher's grades, the case of OpenAnswer**. In: Emerging Technologies for Education. LECTURE NOTES IN COMPUTER SCIENCE, vol. 10108, p. 601-613, Springer Verlag, ISBN: 978-3-319-52835-9, ISSN: 0302-9743, Rome; Italy, 2016, doi: 10.1007/978-3-319-52836-6_64

De Marsico, Maria, Sterbini, Andrea, Temperini, Marco (2017). **Leveraging CPTs in a Bayesian Approach to Grade Open Ended Answers**. In: 2017 IEEE 17th International Conference on Advanced Learning Technologies (ICALT). PROCEEDINGS IEEE INTERNATIONAL CONFERENCE ON ADVANCED LEARNING TECHNOLOGIES., p. 65-69, Institute of Electrical and Electronics Engineers Inc., ISBN: 9781538638705, ISSN: 2161-377X, Timisoara; Romania, 3 July 2017 through 7 July 2017, doi: 10.1109/ICALT.2017.134

De Marsico, Maria, Sterbini, Andrea, Temperini, Marco (2017). **Performance variations of the Bayesian model of peer-assessment implemented in OpenAnswer response to modifications of the number of peers assessed and of the quality of the class**. In: Proceedings of 2017 16th International Conference on Information Technology Based Higher Education and Training (ITHET). p. 1-6, IEEE, ISBN: 978-1-5386-3968-9, Ohrid; Macedonia, Luglio 2017, doi: 10.1109/ITHET.2017.8067814

DE MARSICO, Maria, Moschella, Luca, STERBINI, Andrea, TEMPERINI, Marco (2017). **Effects of network topology on the OpenAnswer's Bayesian model of peer assessment. In: Data Driven Approaches in Digital Education**. LECTURE NOTES IN COMPUTER SCIENCE, vol. 10474, p. 385-390, Springer, ISSN: 0302-9743, Tallinn; Estonia, 12-15/9/2017, doi: 10.1007/978-3-319-66610-5_31

M. De Marsico, F. Sciarrone, A. Sterbini, M. Temperini (2017). **Supporting Mediated Peer-Evaluation to Grade Answers to Open-Ended Questions.** Apr 2017 · Eurasia Journal of

Mathematics, Science and Technology Education.

M. De Marsico, A. Sterbini, M. Temperini (2016). **Modeling peer assessment as a personalized predictor of teacher's grades: The case of OpenAnswer.** DOI: 10.1109/ITHET.2016.776074 Conference: 2016 15th International Conference on Information Technology Based Higher Education and Training (ITHET).

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M. De Marsico, A. Sterbini, M. Temperini (2016). An analysis of factors affecting automatic assessment based on teacher-mediated peer evaluation: The case of OpenAnswer. pp.49-61. In CSEDU 2016 - Proceedings of the 8th International Conference on Computer Supported Education - ISBN:9789897581793, 97... vol. 2

M. De Marsico, F. Sciarrone, A. Sterbini, M. Temperini (2015). **Grading Open-Ended Questions in an Educational Setting, via Non-exclusive Peer Evaluation.** DOI: 10.1007/978-981-287-868-7_44 In book: *State-of-the-Art and Future Directions of Smart Learning*. Proc. 2nd Int. Conf. on Smart Learning Environments, Workshop SPEL, Sept. 23-25, 2015, Sinaia, Romania, Publisher: Springer, Editors: Yanyan Li, Maiga Chang, Milos Kravcik, Elvira Popescu, Ronghuai Huang, Kinshuk, Nian-Shing Chen, pp.355-366

M. De Marsico, A. Sterbini, M. Temperini (2015). **Towards a quantitative evaluation of the relationship between the domain knowledge and the ability to assess peer work**. DOI:10.1109/ITHET.2015.7218036. pp.1-6. In 2015 International Conference on Information Technology Based Higher Education and Training, ITHET 2015 - ISBN:9781479917563

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between Adaptive Learning and Reputation-based Group Activities.. In Proceedings of 2011 International Workshop on Distance Education Technologies (DET 2011) in conjunction with the 17th International Conference on Distributed Multimedia Systems (DMS). Florence, Italy August 18 to 20, 2011 18-20 Agosto 2011 Firenze,

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DE MARSICO M., STERBINI A., TEMPERINI M. (2011) **The Definition of a Tunneling Strategy between Adaptive Learning and Reputation-based Group Activities**. Proceedings of 11th IEEE International Conference on Advanced Learning Technologies - ICALT 2011 IEEE Computer Society 498 500 6-8 Luglio 2011 Athens, Georgia, USA,

GRANDE A., STERBINI A., TEMPERINI M. (2011) **Multi-Rep: an e-learning reputation system
aggregating information from heterogeneous sources**. WSKS 2011, 20-23 Sept. 2011 Mykonos, Greece, (WSKS 2011).

STERBINI A., TEMPERINI M (2011). **SOCIALX: reputation based support to social collaborative learning through exercise sharing and project teamwork**. INTERNATIONAL JOURNAL OF INFORMATION SYSTEMS AND SOCIAL CHANGE, ISSN: 1941-868X, doi: 10.4018/ijissc

DE MARSICO M, STERBINI A., TEMPERINI M (2010). **Tunnelling Model between Adaptive e-Learning and Reputation-based Social Activities**. In: 3rd International Workshop on Social and Personal Computing for Web-Supported Learning Communities (SPeL 2010). Bilbao, Spain, 30 August - 3 September 2010

STERBINI A., TEMPERINI M (2010). **Selection and Sequencing Constraints for Personalized Courses**. In: Frontiers in Education 2010 (FIE 2010). Arlington, Virginia, US, October 27–30, 2010

BRAGA G, STERBINI A., TEMPERINI M (2010). **A Threats Blocking Plug-in for Open Source Learning Management Systems**. In: SPRINGER CCIS 73 - 1st International Conference on REFORMING EDUCATION: Learning Technologies, Quality of Education, Educational Systems, Evaluation, Pedagogies (TECH-EDUCATION 2010). Athen, Greece, 18-21 may 2010, BERLIN / HEIDELBERG: Springer, vol. 73, p. 551-557

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TEMPERINI M, STERBINI A. (2009). **Collaborative projects and self evaluation within a social reputation-based exercise-sharing system**. SPeL 2009. Milano, Italy. 2009. SAINT 2009 International Workshop on Social and Personal Computing for Web-Supported Learning Communities (SPeL 2009).

LONGO P, STERBINI A., TEMPERINI M (2009). **TSW: a web-based automatic correction system for C programming exercises**. In: Visioning and Engineering the Knowledge Society. A Web Science Perspective Second World Summit on the Knowledge Society, (WSKS 2009). Crete

(Greece), 16-18 sep 2009, BERLIN / HEIDELBERG: Springer, vol. 5736/2009, p. 13-21, ISBN/ISSN: 978-3-642-04753-4, doi: 10.1007/978-3-642-04754-1_2

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STERBINI A., BAGNOLI F. (2007). **Detachable Learning Environments for T-learning**. IASTED International Conference on Web Based Education (WBE 2007). Chamonix - Francia. 14-16/3/2007.

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