CURRICULUM VITAE ET STUDIORUM
IVAN SERINA

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NAME:	Ivan Serina
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DATE AND PLACE OF BIRTH:	August 30th, 1971, Chiari (BS) - ITALY
NATIONALITY:	Italian

EDUCATION:

2004-2005: ***Marie Curie*** post-doctoral fellowship financed by the EEC at the University of Strathclyde (Glasgow), Department of Computer Science.

1996-1999: ***PhD*** degree in Information Engineering at the University of Brescia. Dissertation: "Generation and adaptation of Plans through Planning Graphs: development and experimentation on Local Search algorithms and backtracking". Supervisor: Prof. Alfonso Gerevini.

1995: ***Degree in Computer Science*** at the University of Milan. Mark: full marks and honours. Dissertation: "Analysis and development of non supervisioned learning algorithms on neural networks". Supervisor: Prof. Alberto Bertoni Co-supervisor(s): Prof. Paola Campadelli, Prof. M.A. Alberti.

RESEARCH INTERESTS:

Planning, E-Learning, Learning Objects, Artificial Intelligence, Case-Based Planning, Autonomous Agents, Machine Learning, Neural Networks, Knowledge Representation, Knowledge-based systems, Operating Systems.

ACADEMIC POSITIONS:

From November 2017: Associate professor in Information Processing Systems at the Dept. of Information Engineering of the University of Brescia, Italy.
December, 2012 to October 2017: Researcher in Information Processing Systems at the Dept. of Information Engineering of the University of Brescia, Italy.
October, 2008 to November 2012: Researcher in Computer Science at the Free University of Bolzano-Bozen, Italy.

DESCRIPTION OF THE RESEARCH ACTIVITY

At the University of Brescia I'm studying and developing efficient automatic “domain independent” planning techniques. Automatic planning aims at identifying a partially ordered set of actions whose execution allows one or more agents to reach their goals starting from a specific initial situation and a set of actions, specified through a planning language which is independent from the domain such as PDDL (Planning Domain Description Language). Research concentrates itself on algorithms of a general nature applicable to a variety of situations in which the evolution of the external world makes it necessary the revision of a previously formulated plan or the generation of a new plan. In such a context we can collocate the systems LPG, ADJ and OAKplan which I developed at the University of Brescia in cooperation with Professor Alfonso Gerevini and the research group of Artificial Intelligence. In particular at present LPG is one of the best domain independent planners as to the time of calculus required to generate a solution to a planning problem, as to the quality of the plans produced and the expressivity of the planning language adopted. LPG participated to the third International Planning Competition (IPC3, 2002) obtaining the 1st prize in the field of completely

automated planners and to the 4th International Competition (IPC4, 2004) where it was awarded for its performance in temporal and numerical domains.
In cooperation with Professor Maria Fox and Professor Derek Long I did research activity at the University of Strathclyde (Glasgow) in the field of management of plans in dynamical environments. In such a field I took part in the MadBot Project (A Motivated and Goal Directed Robot) to control a robot operating in a dynamic and not completely known environment.
The research activity at the Free University of Bozen/Bolzano had as the main objective the definition of learning paths based on learning objects in the context of automated planning technologies. A learning object is a resource, usually digital and web-based, that can be used and re-used to support learning. Learning objects offer a new conceptualization of the learning process: rather than the traditional "several hour chunk", they provide smaller, self-contained, re-usable units of learning. They will typically have a number of different components, which range from descriptive data to information about rights and educational level. At their core, however, will be instructional content, practice, and assessment. This research study aimed to use case-based planning techniques in order to develop a new system which is able to propose, manage, “reason” and memorize learning paths based on LO, with practical step by step suggestions, to propose a path that best suits the profile and the learning objectives of each learner.
Furthermore I did research as to problems relating to computer security and integration of heterogeneous systems such as Windows and Linux cooperating with the group of Operating Systems of the University of Brescia coordinated by Professor Pietro Baroni and of functional approximation with Professor Marco Campi and Dr. Ing. Maria Prandini.
During my research activity for my final dissertation, I participated in the development of the system INNE (Interactive Neural Network Environment) coordinated by Professor Maria Alberta Alberti and by Prof. Alberto Bertoni at the University of Milan within the Project COLOS (Conceptual Learning of Science) – a project of various European Universities for the development of didactic software.

INTERNATIONAL PRIZES

2019: ICAPS-19 Influential Paper Award for the paper: A. E. Gerevini and I. Serina, "LPG: A Planner Based on Local Search for Planning Graphs with Action Costs". AIPS 2002.

2004: awarded with Professor Alfonso Gerevini, Ing. Alessandro Saetti and Paolo Toninelli at the 4th International Planning Competition (IPC2004), organized within the 14th International Conference on Automated Planning and Scheduling, Whistler, Canada, June 2004. The planning system proposed, named LPG-TD, was awarded for its performance in numeric and temporal domains.

2002: winner with Professor Alfonso Gerevini of the third International Planning Competition (IPC2002), organized within the 13th International Conference on Automated Planning and Scheduling, Toulouse, France, April 2002: The planning system proposed, named LPG, was the best completely automated planner.

LPG and LPG-TD are available with the relative documentation at the web address:
http://zeus.ing.unibs.it//lpg.

PARTICIPATION TO SCIENTIFIC COMMITTEES

2019: membro del Program Committee of ICAPS 2019 (29th International Conference on Automated Planning and Scheduling);

membro del Program Committee of IJCAI-19 (International Joint Conference on Artificial Intelligence);

membro del Program Committee di AAAI-19 (Thirty-Third National Conference on Artificial Intelligence);

membro del Program Committee of AAAI-19 Student Abstract and Poster Program;

2018: Guest Editor di Fundamenta Informaticae for lo special issue of RCRA 2017 (con Marco Maratea e Paolo Torroni);

membro del Program Committee of ICAPS 2018 (28th International Conference on Automated Planning and Scheduling);

membro del Program Committee of SoCS 2018 (International Symposium on Combinatorial Search);

membro del Program Committee of RCRA-18 (25th RCRA International Workshop);

membro del Program Committee of AAAI-18 Student Abstract and Poster Program;

membro del Program Committee of AI*IA2018 (17th International Conference of the Italian Association for Artificial Intelligence);

2017: co-chair di RCRA17 (International Workshop on "Experimental Evaluation of Algorithms for Solving Problems with Combinatorial Explosion");

membro del Program Committee of IJCAI-17 (International Joint Conference on Artificial Intelligence);

membro del Program Committee of ICAPS-17 (International Conference on Automated Planning and Scheduling);

2016: membro del Program Committee of ICAPS-16 (International Conference on Automated Planning and Scheduling);

membro del Program Committee of IJCAI-16 (International Joint Conference on Artificial Intelligence);

membro del Program Committee of AAAI-16 Student Abstract and Poster Program;

membro del Program Committee di RCRA 2016 (International Workshop on “Experimental Evaluation of Algorithms for solving problems with combinatorial explosion");

2015: co-chair di IPS2015 (6th Italian Workshop on Planning and Scheduling);

membro del Program Committee of ICAPS-15 (International Conference on Automated Planning and Scheduling);

membro del Program Committee of IJCAI-15 (International Joint Conference on Artificial Intelligence);

membro del Program Committee of ICAART15 (International Conference on Agents and Artificial Intelligence);

membro del Program Committee di RCRA 2015 (International Workshop on “Experimental Evaluation of Algorithms for solving problems with combinatorial explosion");

2014: member of the Program Committee di IBERAMIA 2014 (Ibero-American Conference on Artificial Intelligence);

member of the Program Committee di RCRA 2014 (International Workshop on “Experimental Evaluation of Algorithms for solving problems with combinatorial explosion");

2013: co-chair of IPS2013 (5th Italian Workshop on Planning and Scheduling);

member of the Program Committee di ICAPS WPAL 2013 (ICAPS Planning and Learning Workshop);

member of the Program Committee di AAAI-13 (Twenty-Sixth National Conference on Artificial Intelligence);

2012: member of the Program Committee of ICAPS-12 (International Conference on Automated Planning and Scheduling);

member of the Program Committee di AAAI-12 (Twenty-Sixth National Conference on Artificial Intelligence);

member of the Program Committee di IBERAMIA 2012 (Ibero-American Conference on Artificial Intelligence);

member of the Program Committee di RCRA 2012 (International Workshop on “Experimental Evaluation of Algorithms for solving problems with combinatorial explosion");

2011: Senior Program Committee member di IJCAI-11 (International Joint Conference on Artificial Intelligence);

member of the Program Committee di ICAPS-11 (International Conference on Automated Planning and Scheduling);

2010: Co-chair with Neil Yorke-Smith (American University of Beirut, Lebanon and SRI International, USA) of the ICAPS-2010 Exhibits and Demonstrations Session; member of the Program Committee of ICAPS-10 (International Conference on Automated Planning and Scheduling);

2009: member of the Program Committee of ICAPS-09 (International Conference on Automated Planning and Scheduling); member of the Program Committee of IJCAI-09 (International Joint Conference on Artificial Intelligence);

2007: member of the Program Committee of the Doctorial Consortium of IJCAI-07 (International Joint Conference on Artificial Intelligence);

2006: member of the Program Committee of AAAI06 (Twenty-first National Conference on Artificial Intelligence);

2006: member of the Consulting Committee of 5th International Planning Competition (IPC5);

2006: member of the Program Committee of ICAPS06 (International Conference on Automated Planning and Scheduling, 2006).

DIDACTIC ACTIVITY AND SEMINARS

2014/2019: Lecturer at the Department of Informatics at the University of Brescia (with Prof. Alfonso E. Gerevini) in the following course: “Machine Learning and Data Mining", corso di Laurea Magistrale in Ingegneria Informatica (6 CFU)”;

2013/2019: Lecturer at the Department of Informatics at the University of Brescia in the following course: “Fondamenti di Programmazione", corso di Laurea in Ingegneria Informatica (6 CFU)”;

2013/2014: Lecturer at the Department of Informatics at the University of Brescia in the following courses: “Elementi di Informatica e Programmazione", Corso di Laurea in Ingegneria Gestionale (6 CFU)”; “Fondamenti di Programmazione", corso di Laurea in Ingegneria Informatica (6 CFU)”;

2011/2012: Lecturer at the Faculty of Education of the Free University of Bozen-Bolzano in the following courses: “nformatica per l'educazione – Corso di Laurea in Educatore Sociale (3 CFU)”; “Statistica per le scienze pedagogiche e sociali, LAB - Dottorato di Ricerca in Pedagogia generale, Pedagogia Sociale e Didattica generale”; “Blended learning nella formazione a livello di laurea magistrale - Corso di laurea magistrale in Innovazione e Ricerca per gli Interventi socio-assistenziali-educativi”; “Internet Technologies - Corso di laurea in Scienze della Comunicazione plurilingue”;

2011/2012: Lecturer at the Faculty of Education of the Free University of Bozen-Bolzano in the following courses: “Informatica per l'educazione – Corso di Laurea in Educatore Sociale (3 CFU)”; “Abilità informatiche e telematiche per il servizio sociale - Corso di Laurea in Servizio Sociale (2 CFU)”; “Statistica per le scienze pedagogiche e sociali, LAB - Dottorato di Ricerca in Pedagogia generale, Pedagogia Sociale e Didattica generale”;

2010/2011: Lecturer at the Faculty of Education of the Free University of Bozen-Bolzano in the following courses: “Analisi dati quantitativi- Dottorato di Ricerca in Pedagogia generale, Pedagogia Sociale e Didattica generale”; “Creazione di questionari on-line - Dottorato di Ricerca in Pedagogia generale, Pedagogia Sociale e Didattica generale”; “Le piattaforme e-learning per la didattica e costruzione condivisa della conoscenza LAB - Dottorato di Ricerca in Pedagogia generale, Pedagogia Sociale e Didattica generale”; “Informatica per l'educazione – Corso di Laurea in Educator Sociale (3 CFU)”;

2009/2010: Lecturer at the Faculty of Education of the Free University of Bozen-Bolzano in the following courses: “Laboratorio Alfabetizzazione Informatica”; “Statistica ed SPPS base”; “SPSS Avanzato”; “Le piattaforme e-learning per la didattica: moodle”;

2008/2009: Lecturer at the Faculty of Education of the Free University of Bozen-Bolzano in the following courses: “Laboratorio Alfabetizzazione Informatica”; “Informatica: aspetti sociali ed etica professionale”, “SPSS”.

28/9/2005: seminar at the research center (IRST), Trento, Italy “*Planning through Stochastic Local Search in LPG*”.

1/4/2005: seminar at the Research’s Digest meetings, Department of Computer and Information Sciences, University of Strathclyde (PHD Fellowship) “*Local Search Techniques and their applications*”.

23/9/2004: seminar at the University of Strathclyde (Department of Computer Science) “*Plan Adaptation Techniques*”.

1998-2004: seminars at the Department of Electronics of the University of Brescia on topics such as: neural networks, local search techniques for planning and scheduling problems, PDDL.2 and FF, generation and adaptation of plans through Planning Graphs, agent+: a prototype to implement a multi-agent system;

RESEARCH PROJECTS

2010-2012: "Tools and Services for Blended Learning for the Faculty of Education". Free University of Bozen-Bolzano, Faculty of Education.

2009-2010: "Study and Design of a Prototype of an Intelligent Planning System for the Building of Learning Paths". Free University of Bozen-Bolzano, Faculty of Education.

OTHER PUBLIC SERVICE:

1999-2008: Chief Engineer at the Department of Civil Engineering of the University of Brescia.
Object of the activity: Integration of heterogeneous systems and problems relating to safety with Linux and Windows.

FOREIGN LANGUAGES:

English.

PUBLICATIONS

International Journals

1- Gerevini, A.E., Lavelli, A., Maffi, A., Maroldi, R., Minard, A.-L., Serina, I., Squassina, G., "Automatic classification of radiological reports for clinical care", **Artificial Intelligence in Medicine**, 2018.
2- Bonisoli, A., Emilio Gerevini, A., Saetti, A., Serina, I., "A privacy-preserving model for multi-agent propositional planning", **Journal of Experimental and Theoretical Artificial Intelligence**, 2018.
3- M. Vallati, I. Serina, A. Saetti, A.E. Gerevini. "Identifying and Exploiting Features for Effective Plan Retrieval in Case-Based Planning", **Fundamenta Informaticae**, 2016, vol. 149, no. 1-2, pp. 209-240, 2016. DOI:10.3233/FI-2016-1447
4- A. Garrido, L. Morales, I. Serina. "On the use of case-based planning for e-learning personalization", **Expert Systems with Applications,** 2016, Volume 60, pp. 1-15. DOI: 10.1016/j.eswa.2016.04.030
5- Bonisoli, A. Gerevini, A. Saetti, I. Serina."*Effective plan retrieval in case-based planning for metric-temporal problems*". **Journal of Experimental & Theoretical Artificial Intelligenc**e. Volume 27, Issue 5, 2015. Special Issue: Knowledge Representation and Automated Reasoning. Pages 603-647. DOI: 10.1080/0952813X.2014.993506
6- D. Borrajo, A. Roubíčková, I. Serina. 2015. "*Progress in Case-Based Planning*". **ACM Computing Survey**. 47, 2, Article 35 (January 2015), 39 pages. DOI=10.1145/2674024 http://doi.acm.org/10.1145/2674024
7- P. Baroni, N. Cadenelli, B. Caprara, A. Colombi, D. Fogli, C. Scala, I. Serina, "*On the Use of Digital Microscopes at Nursery and Primary Schools*", *Procedia - Social and Behavioral Sciences*, Volume 131, 15 May 2014, Pages 521-526, ISSN 1877-0428
8- F. Ravanelli, I. Serina, "*Didactic and Pedagogical View of E-learning Activities Free University of Bozen-Bolzano*", **Procedia - Social and Behavioral Sciences**, Volume 116, 21 February 2014, Pages 1774-1784, ISSN 1877-0428
9- T. A. Nguyen, M. Do, A. E. Gerevini, I. Serina, B. Srivastava, S. Kambhampati. "Generating diverse plans to handle unknown and partially known user preferences". **Artificial Intelligence** (June 2012), doi:10.1016/j.artint.2012.05.005.
10- A. Gerevini, A. Saetti, I. Serina."*Planning in Domains with Derived Predicates through Rule-Action Graphs*". **Annals of Mathematics and Artificial Intelligence**. 2011.
11- A. Garrido, L. Morales, I. Serina. "*On the Necessity of Time and Resource Issues to Support Collaboration in E-learning Standards*". **IEEE Learning Technology Newsletter**, IEEE, Technical Committee on Learning Technology, 13(4), October 2011, pp. 39-41, 2011.

12- A. Gerevini, A. Saetti, I. Serina.“*An Empirical Analysis of Some Heuristic Features for Planning through Local Search and Action Graphs*". **Fundamenta Informaticae**, IOSPress. Vol. 107, pp. 167--197, 2011.

13- I. Serina. “*Kernel Functions for Case-Based Planning*”. **Artificial Intelligence**. Elsevier. 9- vol 174: 1369 – 1406, 2010.

14- 10- A. Gerevini, I. Serina.“*Efficient Plan Adaptation through Replanning Windows and Heuristic Goals*". **Fundamenta Informaticae**, IOSPress. Vol. 102, num. 3, 287-323, 2010.

15- A. Gerevini, A. Saetti, I. Serina. “*An Approach to Efficient Planning with Numerical Fluents and Multi-Criteria Plan Quality*”. **Artificial Intelligence**. Elsevier. 2008 Vol 172/8-9: pag. 899-944.

16- A. Gerevini, A. Saetti, I. Serina. “*An Approach to Temporal Planning in Domains with Deterministic Exogenous Events*”. **Journal of Artificial Intelligence Research** (JAIR). Morgan Kaufmann. San Francisco, California, USA. 2006 vol 25: pag. 187-231.

17- A. Gerevini, A. Saetti, I. Serina. “*Planning through Stochastic Local Search and Temporal Action Graphs in LPG*”. In **Journal of Artificial Intelligence Research** (JAIR). Morgan Kaufmann. San Francisco, California, USA. 2003 vol 20: pag. 239-290. ISSN 1076-9757.

18- A. Gerevini and I. Serina. “*Planning as Propositional CSPs: from Walksat to Local Search Techniques for Action Graphs”*. **CONSTRAINTS - an International Journal**. Kluwer Academic Publishers. 2003 Vol. 8. N. 4: pag. 389-413. ISSN 1383-7133.

Chapter of International Books

19- 15- A. Gerevini, A. Saetti, I. Serina., P. Toninelli “*Planning with Derived Predicates Through Rule-Action Graphs and Local Search Techniques*”. Proceedings of the 9th Congress of the Italian Association for Artificial Intelligence (AI*IA 2005). In **Lecture Notes in Computer Science 3673**. Springer-Verlag Berlin Heidelberg. 2005: pag. 177-181.

20- 16- A. Gerevini, A. Saetti, I. Serina. “*On Managing Temporal Information for Handling Durative Actions in LPG*”. Post Proceedings of the Eighth Congress for the Italian Association of Artificial Intelligence (AI*IA-2003): Advances in Artificial Intelligence. In **Lecture Notes in Computer Science Vol. 2829**. Springer-Verlag Berlin Heidelberg. 2003: pag. 91-104.

21- A. Gerevini and I. Serina. “*Lagrange Multipliers for Local Search on Planning Graphs”*. Local Search for Planning and Scheduling. A. Nareyek editor. In **Lecture Notes in Artificial Intelligence 2148**. Berlino, Heidelberg. 2001: pag. 37-54. ISBN 3-540-42898-4 (Printed in Germany).

22- 18- A. Gerevini and I. Serina. “*On Plan adaptation through planning graph analysis*”. Post Proceedings of the Sixth Congress for the Italian Association of Artificial Intelligence (AI*IA-99): Advances in Artificial Intelligence. In **Lecture Notes in Artificial Intelligence 1792**, Edito da Evelina Lamma, Paola Mello, Springer-Verlag Berlino Heidelberg New York, 2000: pag. 356-367. ISBN 3-540-67350-4. Stampato in Germania.

National Journals

23- G. Cortellessa, A. Gerevini, D. Magazzeni, I. Serina, “Automated planning and scheduling”. **Intelligenza Artificiale** 8(1): 55-56 (2014)

24- A. Gerevini, A. Saetti and I. Serina. “*Pianificazione automatica con variabili numeriche in LPG*”, Intelligenza Artificiale. Periodico trimestrale dell'Associazione Italiana per l'**Intelligenza Artificiale**. Anno II N. 4 Dicembre 2005. ISSN 1724-8035

25- A. Gerevini and I. Serina. “*Pianificazione Efficiente attraverso Grafi di Azioni*”. **AI*IA Notizie**, Associazione Italiana per l'Intelligenza Artificiale, Anno XIII, N. 1, Marzo 2000. Registrazione presso il Tribunale di Torino n. 3983 del 22/11/88. Stampato a Pontassieve, Firenze.

Proceeding of International Conferences

26- A. E. Gerevini, N. Lipovetzky, F. Percassi, A. Saetti, and I. Serina, "Best-First Width Search for Multi Agent Privacy-preserving Planning". Accepted in the Proceedings of the International Conference on Automated Planning & Scheduling (**ICAPS 2019**).

27- M. Vallati, I. Serina, "A General Approach for Configuring PDDL Problem Models". Proceedings of the International Conference on Automated Planning & Scheduling (**ICAPS 2018**). p. 431-436. 2018.

28- H. Herath, J. Kumara, M. Fernando, K. Bandara, I. Serina, "Comparison of supervised machine learning techniques for PD classification in generator insulation", 2017, Proceedings of the IEEE International Conference on Industrial and Information Systems, ICIIS 2017.

29- M. Vallati, L. Chrpa, I. Serina,"On the evolution of planner-specific macro sets", 16th International Conference on Italian Association for Artificial Intelligence, AI*IA 2017; Bari; Italy; 14 November 2017 through 17 November 2017. Volume 10640 LNAI, 2017, Pages 443-454.

30- A. Gerevini, A. Lavelli, A. Maffi, R. Maroldi, A. Minard, I. Serina, G. Squassina, "Automatic Classification of Radiological Reports for Clinical Care". Artificial Intelligence in Medicine **AIME 2017**: p. 149-159; June 2017. DOI: 10.1007/978-3-319-59758-4_16.

31- D. Gnad, M. Steinmetz, M. Jany, J. Hoffmann, I. Serina, A. Gerevini "Partial Delete Relaxation, Unchained: On Intractable Red-Black Planning and Its Applications". Proceedings of the Ninth Annual Symposium on Combinatorial Search, **SOCS 2016**, AAAI Press 2016: 45-53. Tarrytown, NY, USA, July 6-8, 2016.

32- M.Vallati, I. Serina, A. Saetti, A. Gerevini. "I*dentifying and Exploiting Features for Effective Plan Retrieval in Case-Based Planning*". Proceedings of the International Conference on Automated Planning & Scheduling (**ICAPS15**). Jerusalem (Israel). Giugno 2015.

33- G. Toninelli,A. Gerevini, I. Serina, M. Vaglio, F. Badilini, "*Study of ECG quality using self learning techniques*". Proceedings of Computing in Cardiology Conference (**CinC14**), 2014. p. 577-580. Cambridge, USA. Settembre, 2014.

34- A. Bonisoli, A. Gerevini, A. Saetti, I. Serina, "*A Privacy-preserving Model for the Multi-agent Propositional Planning Problem*". In Proceedings of the Twenty-First European Conference on Artificial Intelligence (**ECAI-14**).

35- Gerevini A., Roubíčková A., Saetti A., Serina I. (2013). "*On the plan-library maintenance problem in a case-based planner*". Proceedings of the 21st International Conference on Case-Based Reasoning Research and Development, **ICCBR 2013**,In: Lecture Notes in Computer Science . vol. 7969 LNAI, p. 119-133, ISBN: 9783642390555, 2013, doi: 10.1007/978-3-642-39056-2_9

36- A. Gerevini, A. Saetti, I. Serina."*Case-based Planning for Problems with Real-valued Fluents: Kernel Functions for Effective Plan Retrieval*". Proceedings of the biennial European Conference on Artificial Intelligence (**ECAI-2012**). Montpellier, Francia. Agosto 2012.

37- A. Garrido, L. Morales, I. Serina."*Using AI Planning to Enhance E-learning Processes*". Proceedings of the Twenty-Second International Conference on Automated Planning and Scheduling (**ICAPS-2012**), AAAI Press, pp. 47-55, 2012.

38- L. Morales, A. Garrido, I. Serina. "*Planning and Execution in a Personalized E-learning Setting*". Proceedings of the Conferencia de la Asociación Española para la Inteligencia Artificial (**CAEPIA-2011**). San Cristóbal de La Laguna, Tenerife. 7-10 Novembre 2011.

39- A. Garrido, L. Morales, I. Serina. "*Curriculum Design Adaptation, Execution and Monitoring in Moodle*". Proceedings of the 4th International Conference of Education, Research and Innovation (**ICERI-2011**). Madrid. 14-16 Novembre 2011.

40- A. Gerevini, A. Saetti, I. Serina.*"Temporal Planning with Problems Requiring Concurrency through Action Graphs and Local Search"*, International Conference on Automated Planning & Scheduling (**ICAPS10**). Toronto Canada. May 2010.

41- I. Serina. "*Case-Based planning techniques in an e-learning environment*" Poster Session of **Paris 2010**, International Conference Education, Economy & Society, Paris. July 2010.

42- B. Srivastava. S. Kambhampati, T. A. Nguyen, M. B. Do, A. Gerevini, I. Serina.*" Domain Independent Approaches for Finding Diverse Plans"*. Twentieth International Joint Conference on Artificial Intelligence (**IJCAI-06**), Hyderabad, India, June 2007 [Acceptance rate: 212/1353=16%].

43- A. Gerevini, M. Fox, D. Long and I. Serina. "Plan Stability: Replanning versus Plan Repair". International Conference on Automated Planning & Scheduling (**ICAPS06**).The English Lake District, U.K June 2006. [Acceptance rate: 33/99=33%].

44- A. Gerevini, A. Saetti, I. Serina.*" Integrating Planning and Temporal Reasoning for Domains with Durations and Time Windows"*. Proceedings of the Nineteenth International Joint Conference on Artificial Intelligence (**IJCAI-05**), Edinburgh, Scotland, UK, August 2005 [Acceptance rate: 240/1329=18%].

45- A. Gerevini, A. Saetti, I. Serina, and P. Toninelli. "*Fast Planning in Domains with Derived Predicates*" In Proceedings of the Twentieth National Conference of Artificial Intelligence (**AAAI-05**), American Association for Artificial Intelligence. Pittsburgh, Pennsylvania USA, July 2005. pag. 1157—1162, ISBN 1-57735-236-X [Acceptance rate: 223/803=28%].

46- A. Gerevini, A. Saetti, I. Serina. *"Planning with Numerical Expressions in LPG"*. In Proceedings of Sixtheenth European Conference on Artificial Intelligence (**ECAI-04**). Valencia (Spain). August 2004, pag. 667-671, IOS Press, Amsterdam. ISBN 1-58603-452-9. [Acceptance rate: 168/652=26%].

47- A. Gerevini, A. Saetti, I. Serina. *"An Empirical Analysis of some Euristic Features for Local Search in LPG"*. In Proceedings of the 14th International Conference on Automated Planning & Scheduling (**ICAPS04**). Whistler, British Columbia, Canada. June 2004, pag. 171--180. AAAI Press, Menlo Park, California. ISBN 1-57735-200-9 [Acceptance rate: 37/119=34%].

48- A. Gerevini, I. Serina, *A.* Saetti, S. Spinoni. *"Local Search Techniques for Temporal Planning in LPG"*. In Proceedings of the 13th International Conference on Automated Planning & Scheduling (**ICAPS03**). Trento, Italy. June 2003: pag. 62-71. AAAI Press, Menlo Park, California, Printed in USA. ISBN 1-57735-187-8. [Acceptance rate: 30/98= 31%].

49- A. Gerevini and I. Serina. *"LPG: A Planner Based on Local Search for Planning Graphs with Action Costs"*. In Proceedings of the Sixth International Conference on Automated Planning & Scheduling (**AIPS02**). Toulouse, France. April 2002: pag. 13-22. AAAI Press, Menlo Park, California, USA, 2002. [Acceptance rate: 32/92=35%].

50- A. Gerevini and I. Serina. "*Fast plan adaptation through planning graphs: Local and systematic search techniques"*. In Proceedings of the 5th International Conference on Artificial Intelligence Planning Systems (**AIPS-00**). Austin,Texas. April 2000: pag. 112-121. AAAI Press, Menlo Park, California, USA, 2000. Printed in USA. ISBN 0-1-57735-111-8.

51- A. Gerevini and I. Serina. "*Plan adaptation through planning graphs"*. In the 5th European Conference on Planning. Durham, UK (Poster Session). September 1999: pag. 391-392.

52- A. Gerevini and I. Serina. "*Fast Planning through Greedy Action Graphs*". In Proceedings of the Sixteenth National Conference of Artificial Intelligence (**AAAI-99**), American Association for Artificial Intelligence. Orlando Florida, July 1999: pag. 503-510. AAAI-MIT Press, Menlo Park California USA, Cambridge USA, Londra, 1999. Printed in USA. ISBN 0-262-51106-1. [Acceptance rate: 121/455=32.7%].

53- M. A. Alberti and I. Serina. "*Visual Applications of Neural Networks*". Acts of the Convention of New Network-Based Media in Education. Maribor, Slovenia. September 1998: pag. 82-90.

54- M. A. Alberti and I. Serina. "*INNE: a Neural Network Simulation Environment*". Acts of the **10th World Conference on Ed-Media & Ed-Telecom**. Freiburg, Germany. June 1998: pag. 25-30.

Proceeding of National Conferences

55- A. Gerevini, A. Roubickova, A. Saetti, I. Serina, "*Offline and Online Plan Library Maintenance in Case-based Planning*", Proceedings of the Thirteenth Conference of the Italian Association for Artificial Intelligence (**AIIA-13**), Turin (Italy), 2013

56- I. Serina."*e-Learning e Case Based Planning*". **DIDAMATICA 2011**. Torino, Maggio 2011.

57- A. Gerevini, I. Serina. "*On plan adaptation through planning graph analysis*". In Acts of the Sixth Congress for the Italian Association of Artificial Intelligence (**AI*IA 99**), Bologna, Italy, September 1999: pag. 463-472. Pitagora Editrice, Bologna, 1999. Stampato a Bologna. ISBN 88-371-1132-0.

Proceeding of International Workshops

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