

Trento, li 21 agosto 2020

Oggetto: nomina della Commissione tecnica nella procedura negoziata per la fornitura e relativi servizi di assistenza e manutenzione di hardware e software per l'integrazione e la gestione di un cluster di calcolo HPC – CIG 83821565F3

IL DIRETTORE DEL CENTRO ICT

- **PREMESSO** che con Determinazione a contrarre Prot. 29/2020 del 28 luglio 2020 il Direttore Del Centro ICT ha dato avvio alla procedura negoziata per la fornitura e relativi servizi di assistenza e manutenzione di hardware e software per l'integrazione e la gestione di un cluster di calcolo HPC – CIG 83821565F3, con applicazione del criterio dell'offerta economicamente più vantaggiosa individuata sulla base del miglior rapporto qualità/prezzo, ai sensi degli artt. 16 e 17 della L.P. 9 marzo 2016 n. 2 e degli artt. 60 e 95 del D.Lgs. 18 aprile 2016, n. 50;
- **CONSIDERATO** che l'art. 77 del D.Lgs 50/2016 prevede che per i settori ordinari, quando il criterio di aggiudicazione è quello dell'offerta economicamente più vantaggiosa, la valutazione delle offerte dal punto di vista tecnico ed economico è affidata ad una commissione giudicatrice;
- **ATTESO** che allo stato attuale non risulta ancora operativo l'Albo dei commissari di gara di cui all'art. 21 della L.P. 2/2016, né quello istituito presso ANAC, in quanto la norma che disciplina l'operatività dell'albo dei componenti delle commissioni giudicatrici è sospesa fino al 31 dicembre 2020, con ciò rimanendo in vigore la disposizione transitoria di cui all'art. 216 del D.Lgs. 50/2016 per cui *"Fino alla adozione della disciplina in materia di iscrizione all'Albo di cui all'articolo 78, la commissione giudicatrice continua ad essere nominata dall'organo della stazione appaltante competente ad effettuare la scelta del soggetto affidatario del contratto, secondo regole di competenza e trasparenza preventivamente individuate da ciascuna stazione appaltante"*;
- **CONSIDERATO** che il termine per la presentazione delle offerte è scaduto in data 20 agosto 2020 alle ore 23.59 e che, pertanto, è possibile procedere alla nomina dei commissari e alla costituzione della commissione;
- **PRESO ATTO** che gli operatori economici partecipanti alla gara, come da seduta pubblica tenutasi in data 21 agosto 2020 per l'apertura delle offerte, sono i seguenti:
 - EXACT LAB SRL
 - AETHIA SRL
- **ATTESO** che la commissione deve essere composta da un numero dispari di componenti, in numero massimo di cinque, esperti nello specifico settore cui si riferisce l'oggetto del contratto (articolo 77, comma 2, del D.Lgs. 18 aprile 2016, n. 50);
- **CONSIDERATO** che tra il personale interno della Fondazione vi è un numero sufficiente di esperti muniti di qualificazione, funzioni e ruoli per la completa costituzione della Commissione, così costituita:
 - Roberto Flor

- Marco Turchi
 - Andrea Micheli
- **CONSIDERATO** che, qualora taluno dei suddetti componenti della commissione tecnica sia impossibilitato a presenziare alla stessa, il Presidente della Commissione provvederà a surrogarlo all'apertura della seduta disponendo menzione in calce al verbale di gara;
- **RITENUTO** di dover allegare al presente atto i *curricula* dei componenti la Commissione per la pubblicazione del presente atto nella sezione "Amministrazione trasparente", ai sensi dell'art. 29 comma 1 del D.Lgs. 18 aprile 2016, n. 50 e con l'applicazione delle disposizioni di cui al D.Lgs. 14 marzo 2013, n. 33;
- **STABILITO** che, per l'espletamento dell'incarico, non è previsto alcun compenso aggiuntivo per i componenti della suddetta Commissione;

DETERMINA

1. che la premessa forma parte integrante e sostanziale del presente provvedimento;
2. di nominare la Commissione di gara per la valutazione delle offerte relativa alla procedura negoziata per la fornitura e relativi servizi di assistenza e manutenzione di hardware e software per l'integrazione e la gestione di un cluster di calcolo HPC - CIG: 83821565F3, secondo quanto definito nei documenti di gara, nelle persone di:
 - **Roberto Flor - Presidente**
 - **Marco Turchi - componente**
 - **Andrea Micheli - componente**
3. di demandare alla Commissione lo svolgimento di tutte le operazioni valutazione delle offerte tecniche;
4. di dare atto che, per l'espletamento dell'incarico, non è previsto alcun compenso aggiuntivo per i componenti della suddetta Commissione;
5. di disporre la pubblicazione del presente atto e dei *curricula* dei componenti la Commissione nella sezione "Amministrazione trasparente" del sito della Fondazione in adempimento all'art. 29 del vigente Codice dei Contratti.

Il Direttore del Centro ICT

Ing. Paolo Traverso

(f.to digitalmente)

CURRICULUM VITAE

Nome: Roberto Flor

Nato: CLES (Trento), 22 Novembre 1958

Indirizzo:

Fondazione Bruno Kessler
Via Sommarive 18
I-38122 Povo, Trento

1977 Maturità Classica presso il Liceo "G. Prati" di Trento, con la votazione di 58/60.

1982 Laurea in Ingegneria Elettronica all'Università di Padova con la votazione di 110/110 e lode presentando la tesi Progetto di una rete locale di calcolatori.

1984 Assunto nella divisione Ricerca e Sviluppo della Divisione Minisistemi dell'Olivetti Ivrea.

1987 Assunto come ricercatore esperto nell'ambito della linea software dell'Istituto Ricerca Scientifica e Tecnologica (IRST) presso Istituto Trentino di Cultura(ITC).

1993 Inquadrato come ricercatore di fascia R2.

1994 Inquadrato nel gruppo di gestione sistemi di calcolo nell'ambito della gestione e manutenzione di tutti i sistemi di rete, con particolare attenzione al supporto delle attività di ricerca per le varie applicazioni di rete e nell'utilizzo e realizzazione di applicazioni distribuite.

1995 - 2005 professore a contratto presso il Diploma Ingegneria Informatica di Rovereto per il corso Reti di Calcolatori.

1999 - 2009 realizzazione e gestione di un cluster di PC per la realizzazione di un sistema di calcolo parallelo con sistemi standard COTS (cluster Beowulf) nonché ai relativi problemi di ottimizzazione e suddivisione del codice con un'ottica di evoluzione verso sistemi Data Grid.

2001 - 2011 organizzazione e gestione del corso estivo residenziale di tre settimane per studenti delle scuole superiori (WebValley)

2008 Assunto in Fondazione Bruno Kessler come Tecnologo di secondo livello e nominato responsabile dell'unità Infrastruttura per la gestione ed evoluzione dell'infrastruttura informatiche della fondazione.

2009 - 2020 Progettazione, implementazione, aggiornamento e gestione del sistema HPC della Fondazione Kore <https://sit.fbk.eu/hpc/kore>

PERSONAL INFORMATION **Marco Turchi**

WORK EXPERIENCE

December 2018 – onward

Research directorFondazione Bruno Kessler, Trento, Italy www.fbk.eu

- Research director of the Machine Translation group

Business or sector Research

October 2012 – December 2017

ResearcherFondazione Bruno Kessler, Trento, Italy www.fbk.eu

- Researcher in the field of Human Language Technology

Business or sector Research

October 2009 – October 2012

Researcher

Joint Research Centre - JRC - European Commission, Ispra, Italy

- Researcher in the field of Human Language Technology

Business or sector Research

January 2007 – October 2009

Researcher

Department of Engineering Mathematics, University of Bristol, U.K.

- Researcher in the fields of Human Language Technology and Machine Learning

Business or sector Research

September 2006 – January 2007

Visiting Fellow

Department of Engineering Mathematics, University of Bristol, U.K.

- Researcher in the fields of Human Language Technology and Machine Learning

Business or sector Research

March 2006 – September 2006

Research Intern

Xerox Research Centre Europe, Grenoble France.

- Researcher in the fields of Human Language Technology and Machine Learning

Business or sector Industrial Research

June 2005– September 2005

Research Intern

Yahoo Research Lab, Pasadena California U.S.

- Researcher in the fields of Human Language Technology and Machine Learning

Business or sector Industrial Research

November 2004 – March 2006

Research Intern

Statistical Department, University of California, Davis, U.S.

- Researcher in the fields of Human Language Technology and Machine Learning

Business or sector Research

EDUCATION AND TRAINING

October 2002 – March 2006

Ph.D. in “Computer Engineering, adaptive information processing”.

Department of Information Engineering, University of Siena, Italy

- Dissertation on “Time Series Analysis of Textual Data”. Supervisor: Prof. M. Maggini.

September 2004 – September 2002

MSc’s degree in Computer Science

Department of Information Engineering, University of Siena, Italy.

- Dissertation on: “Detection of Web page components: an approach based on visual layout”
Supervisors: Prof. M. Maggini

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
French	B1	B1	B1	B1	B1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user

Communication skills Good communication skills gained at several platform presentations to international conferences and workshops.

Selected Conferences:

- **2018:** Invited speaker at the School of Advanced Technologies for Translators (SATT)
- **2018:** 13th Biennial Conference of the Association for Machine Translation in the Americas (AMTA'18)
- **2017:** 2nd Conference on Machine Translation (WMT 2017)
- **2015:** Invited Speaker at Errare Workshop 2015 (invited Speaker)
- **2014:** 11th Biennial Conference of the Association for Machine Translation in the Americas (AMTA'14)
- **2014:** 25th International Conference on Computational Linguistics (COLING'14)
- **2013:** Workshop on Machine Translation (WMT'13)
- **2012:** European Association on Machine Translation Conference (EAMT'12)
- **2011:** International Conference Recent Advances in Natural Language Processing (RANLP'11)
- **2009:** IEEE / WIC / ACM International Conferences on Web Intelligence (WI'09) and Intelligent Agent Technology (IAT'09)
- **2008:** 3rd Workshop on Statistical Machine Translation, ACL'08
- **2004:** IEEE/WIC/ACM International Joint Conference on Web Intelligence WI'04

Organisational / managerial skills Co-organizer of:

- **2019:** 4th Conference on Machine Translation
- **2018:** 15th International Workshop on Spoken Language Translation (Program Chair)
- **2018:** 3rd Conference on Machine Translation
- **2018:** 5th Italian Conference on Computational Linguistics (Area Chair)
- **2017:** 2nd Conference on Machine Translation
- **2016:** 1st Conference on Machine Translation
- **2015:** 10th Workshop on Statistical Machine Translation,
- **2015:** 2nd Italian Conference on Computational Linguistics (Area Chair)
- **2014:** 9th Machine Translation Marathon, Trento, September
- **2009:** Intelligent Analysis and Processing of Web News Content workshop at WI-IAT
- **2009:** Statistical Multilingual Analysis for Retrieval and Translation associated workshop at EAMT
- **2008:** European Project SMART Meeting in Bristol

Supervised Students

Phd. Students:

- **2019:** Marco Gaido
- **2018:** Alina Karakanta
- **2017:** Amirohossein Tebbifakhr
- **2016:** Duygu Ataman
- **2015:** Mattia di Gangi

Former Phd. Students:

- Rajen Chatterjee (Apple)
- Jose Guilherme Camargo de Souza (eBay) EAMT Best MT-related Thesis Award 2017

Internship Students:

- **2019:** Viet Nhat Nguyen (University of Trento, Italy)
- **2019:** Dung Nguyen (University of Edinburgh, UK)
- **2018:** Roberto Dessi' (University of Trento, Italy)
- **2018:** Aliia Erofeeva (University of Trento, Italy)
- **2016:** Gebremedhen Gebremelak (University of Trento, Italy)
- **2015:** Masoud Jalili (University of Tehran, Iran)
- **2014:** Marion Weller (University of Stuttgart, Germany).
- **2014:** Hamed Zamani (University of Tehran, Iran)
- **2014:** Daniel Torregrosa Rivero (University of Alicante, Spain)
- **2013:** Antonis Anastasopoulos (National Technical University of Athens, Greece)
- **2013:** Mihael Arcan (Digital Enterprise Research Institute (DERI), National University of Ireland, Galway, Ireland)

Bachelor Student Master Thesis:

- **2016:** Gebremedhen Yebrehu Gebremelak (University of Trento, Italy)
- **2013:** Antonis Anastasopoulos (National Technical University of Athens, Greece)

I have taken part in more than ten master's examination committees and several the PhD committee (e.g. Camargo de Souza (University of Trento), Carolina Scarton (University of Sheffield), Julia Ive (LIMSI-CNRS)).

I have served as PC Member for the top-ranked international conferences and workshops (e.g. ACL, NAACL, EMNLP, ...) and Journals (Machine Translation, Journal of Artificial Intelligence Research (JAIR), ACM Transactions on Speech and Language Processing Journal (TSLP), Language Resources and Evaluation (LRE).)

Job-related skills

I have been involved in the preparation of several research proposals both as project partner and coordinator.

Fund Proposals:

- **2019:** “CEF Data Market Place” CEF Telecom (Principal Investigator)
- **2019:** “MateDub” EIT Digital (Principal Investigator)
- **2019:** “End-to-end Spoken Language Translation in Rich Data Conditions” Amazon AWS Machine Learning Award
- **2018:** “Smart Subtitling and Dubbing System” Lazio Innova “Creatività 2020 (Principal Investigator)
- **2017:** “Automatic Post-editing of Machine Translation with Neural Networks”. NVIDIA GPU Grant
- **2015:** “DeepQE: Deep Learning for MT and ASR Quality Estimation”. NVIDIA’s Academic Hardware grant
- **2015:** “Adaptive Quality Estimation for SAP”. Industrial project with SAP, Germany. (Principal Investigator)
- **2014:** QT21 (EU Project Horizon 2020) (Work Package Leader)
- **2014:** Modern Machine Translation (EU Project Horizon 2020)
- **2013:** European Association for Machine Translation (EAMT) summer internship project titled: “Open source software development for tidying up and extending translation memories”.
- **2011:** Innovative Project Competition: Automatic multilingual indexing of parliamentary documents Ralf Steinberger, Marco Turchi & Erik van der Goot, IPSC-GlobeSec-OPTIMA (Principal Investigator)

Italian National Scientific Qualification as Associate Professor (2017 – 2022)

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Independent user	Independent user	Proficient user

Computing:

- Excellent in Java, Python, Theano, PyThorch, matlab, C++, mySql and Linux.
- Basic Knowledge of Ansi c, html, Perl, scipy.
- Excellent user’s experience of Java search engine: Apache Lucene, Elasticsearch, General Architecture for Text Engineering: Gate, Weka, Apache Cayenne, Statistical Machine Translation toolkit Moses, LingPipe and High Performance Computing (HPC) technology.

Driving licence B

Ongoing collaborations

I’m collaborating with the following companies and researchers:

- Translated.net: Online agency providing professional translation and localization services
- Sedif: Dubbing and Audio Post-Production Studio
- Prof. Lucia Specia (University of Sheffield)
- John Ortega (Scientist at Nuance)
- Rajen Chatterjee (Apple Inc)
- Phd Jose Guilherme Camargo de Souza (eBay)
- Prof. Elisa Ricci (University of Trento)

Andrea Micheli

Curriculum Vitae

I have 10+ years of experience in the research and development of logic-based AI reasoning techniques (including model-checking, SAT/SMT solving, constraint programming and planning) to a wide range of problems. I have a track record of publications in top-tier venues, proven ability of delivering solutions within research projects, and experience conceiving, designing, and implementing formal reasoning, planning and scheduling tools. Although my main research interest is temporal planning, I am interested in other areas of AI, such as game theory and machine learning.

I have a solid software development background with a strong focus on C++ and Python programming languages and I have experience in implementing several formal reasoning tools that are used both in academia and industry. I contributed to the NuSMV and nuXmv state-of-the-art model-checking tools, and I am the creator of the open-source library pySMT (<http://www.pysmt.org>) and of the TAMER planner.

I am passionate about applying AI-based techniques to practical and industrial applications.

Work Experience

2016 – Present **Post-Doctoral researcher**, *Fondazione Bruno Kessler*, Trento, Italy.

Research in Artificial Intelligence Planning and Scheduling.

Main activities:

- Research of algorithms and methodologies for industrial optimization, leveraging AI technologies.
- Development and integration of prototypes and demonstrators of the proposed techniques.
- Joint research collaboration with NASA Ames on planning and scheduling with uncontrollable action durations.
- Coordination and supervision of developers and master students.
- Participation in and coordination of research projects with international partners, such as:
 - EIT iLAADR: development of a planning system for an industrial Automated Guided Vehicle with on-board manipulator;
 - EIT AWARD: development of an automated optimizer for the intra-logistics of a large-scale warehouse;
- Participation in and coordination of industrial projects:
 - MAIS: development of a platform for the automatic planning of movements for hoists in an electroplating application domain.

Reference: Alessandro Cimatti. <http://es.fbk.eu>

2011 – 2016 **PhD in Computer Science**, *University of Trento and Fondazione Bruno Kessler*, Italy.

Thesis title: “Planning and Scheduling in Temporally Uncertain Domains”, approved *cum laude*.

The thesis contributes the state-of-the-art in three directions:

- Formalization and systematization of existing works in planning and scheduling supporting temporal uncertainty;
- Development of scheduling techniques for the strong, weak and dynamic controllability problems in presence of temporal uncertainty;
- Development of planning techniques with temporal uncertainty.

Main Activities:

- Development of logical and mathematical techniques for the addressed scheduling problems;
- Development of prototypical implementations to demonstrate the techniques and prove the obtained results;
- Writing of scientific papers;
- Dissemination of the results with multi-medial talks in Italian and English for both academic and industrial audiences;
- Collection, analysis and interpretation of quantitative experimental data.

Advisor: Alessandro Cimatti. <http://es.fbk.eu>

2014 **Internship**, *NASA Ames Research Center*, Mountain View, California, USA.

Development of techniques for Strong Temporal Planning Under Uncertainty for space applications.
References: Jeremy Frank and David Smith. <https://ti.arc.nasa.gov/profile/frank/>

2010 – 2011 **Teaching Assistant**, *Free University of Bolzano*, Italy.

Functional and Logic Programming Languages course.

2008 – 2011 **Scientific Developer**, *Fondazione Bruno Kessler*, Trento, Italy.

Development of the EurailCheck software for the ERA-ETCS project. The software allows the formalization of ETCS requirements expressed in natural language by railway domain experts, enabling the automatic verification of consistency and realizability properties. The software is a plug-in of IBM Rational Software Architect written in Java.

Development of the NuSMV and nuXmv model checkers for the formal verification of logical properties on finite and infinite state systems.

Development of an API for NuSMV for the Kratos software model checker. Reference: Marco Roveri. <https://es-static.fbk.eu/tools>

Awards

2017 Honorable Mention for the ICAPS Best Dissertation Award, Pittsburgh, PA (USA).

2016 EurAI Best Dissertation Award, European Association for Artificial Intelligence (EurAI), The Hague (NL).

2016 Italian Association for Artificial Intelligence Best Dissertation Award 2016 "Premio Marco Cadoli", Genova, (IT).

2016 Fondazione Bruno Kessler best PhD award, Trento, (IT).

2006 Silver Medal at the Italian Olympiad in Informatics, Italian Association for Automated Computation (AICA), Milan.

Education

2009 – 2011 **Master Degree**, *University of Trento*, Italy, *Grade: 110/110 with honors*.

MSC in Computer Science, minor in Bioinformatics.

2010 – 2011 **Erasmus Scholarship**, *Vrije Universiteit Amsterdam*, The Netherlands.

2006–2009 **Bachelor Degree**, *University of Trento*, Italy, *Grade: 110/110 with honors*.

BSC in Computer Science.

Software Projects

TAMER I am the lead developer of the TAMER planner: a multi-technique planner written in C++14 that aims at providing a clean, application-oriented API interface for using planning technology as a library. TAMER has been used in several projects I worked on at FBK.

pySMT I am the co-creator of PySMT (<http://www.pysmt.org>), an open-source python library that provides a solver agnostic interface to define, manipulate and solve first-order formulae in a decidable background theories.

NuSMV I collaborated in the development of NuSMV (<http://nusmv.fbk.eu>), a state-of-the-art symbolic model checker for finite-state systems.

nuXmv I collaborated in the development of NUXMV (<http://nuxmv.fbk.eu>), a symbolic model checker for the analysis of synchronous finite-state and infinite-state systems. NUXMV features SMT-based verification techniques, implemented through a tight integration with MATHSAT5.

Kratos I collaborated in the development of KRATOS (<http://es.fbk.eu/tools/kratos/>), a software model checker for sequential and (cooperative) threaded C programs.

Research and Technology-Transfer Projects

- HyDrone** (<http://es.fbk.eu/projects/aresrs>) The project is funded by a well-known oil-and-gas company for the realization of an autonomous architecture for Autonomous Underwater Vehicles (AUVs). In this setting, we focused on the R&D of a plan execution engine for the robotic operating system of the client company and we are currently developing an automated planning system that will run on-board of the AUV. The planning scenario consists of a fleet of AUVs that interact with submarine structures. I currently lead the management and the technical development of the project.
- UAV-RETINA** (<http://es.fbk.eu/projects/uav-retina>) UAV-RETINA is an EIT-funded innovation project, in which FBK was responsible for the optimized planning of rescue drones. Together with E. Scala, I was the technical leader of the project.
- AWARD** (<http://es.fbk.eu/projects/award>) In AWARD, an EIT-funded innovation project, FBK was responsible for the intra-logistic planning of a warehouse using Automated Guided Vehicles and by coordinating the last mile deliveries using drones. I lead the development of the AWARD planner and managed the project.
- MAIS** (<http://es.fbk.eu/projects/mais>) The Mechanical Automation Integration System was an ambitious project aimed at the development of a platform for the automatic control of electroplating plants. I was in charge of the development of the temporal planning component of MAIS, and, with the rest of the team, we quickly realized how the combination of the planning and the scheduling sub-problems was intractable for existing domain-independent planners. In the project, we developed a very efficient domain-dependent planner in which we coded the knowledge gained from extensive discussions with domain experts.
- iLAADR and iLEVATOR** (<http://es.fbk.eu/projects/ilaadr-ilevator>) The two projects were funded by EIT Digital and my task was to develop a temporal planner for a fleet of Automated Guided Vehicles (AGVs) working on intra-logistics kitting tasks in a production-line factory. In this case I adapted state-of-the-art techniques for strong temporal planning with uncontrollable durations I developed during my PhD and I complemented them with a flexible executor.
- CASTOR-ONE** (<http://es.fbk.eu/projects/castorone>) The project was funded by a well-known oil-and-gas company for the realization of a planner for a pipelaying vessel. The task of the planner is to organize the work onboard the pipelaying ship where precise timing and ordering of operations are needed for the construction of an undersea pipe. We tried several domain-independent planning techniques on this domain, but we resorted to the construction of a domain-dependent planner due to huge scalability problems. The resulting planner leverages the structure of the ship to quickly find plans for nominal and off-nominal situations.

Languages

Italian Mother tongue.

English Proficient. I hold a Cambridge ESOL First Certificate in English (Mar 2006).

Relevant Experiences

- 2018 Invited participation at the Planning and Operations Research Dagstuhl Seminar (number: 18071)
- Selected Talks**
- 2017 *Validating Domains and Plans for Temporal Planning via Encoding into Infinite-State Linear Temporal Logic* at AAAI 2017, San Francisco (CA), USA.
- 2016 *Planning and Scheduling in Temporally Uncertain Domains* at ECAI 2016, The Hague (NL).
Dynamic Controllability of Disjunctive Temporal Networks: Validation and Synthesis of Executable Strategies at AAAI 2016, Phoenix (AZ), USA.
- 2015 *SMT-based techniques for planning and scheduling under uncertainty* at NASA Ames Research Center, Mountain View (CA), USA.
- 2014 *Using Timed Game Automata to Synthesize Execution Strategies for Simple Temporal Networks with Uncertainty* at the AAAI 2014 conference, Quebec City, Canada.

- 2013 *Timelines with Temporal Uncertainty* at the IPS 2013 workshop, Turin, Italy.
Timelines with Temporal Uncertainty at the AAAI 2013 conference, Bellevue (WA), USA.
- 2012 *Strong Controllability of Disjunctive Temporal Problems* at the Constraint Programming 2012 conference, Quebec City, Canada.
Weak Controllability of Temporal Problems at the AAAI 2012 conference, Toronto, Canada.
Strong Controllability of Disjunctive Temporal Problems at the CSP-SAT 2012 workshop, Trento, Italy.
Temporal Problems at the Alpine Verification Meeting 2012, Passau, Germany.
- 2010 *OthelloPlay: a plug-in based tool for requirement formalization and validation* at the TOPI 2010 workshop, Honolulu (HI), USA.

Summer Schools

- 2013 ICAPS summer school on Planning and Scheduling, Perugia, Italy.
2012 SAT/SMT summer school in Trento, Italy.

Academic Services

I served in the program committee of the following conferences: ECAI'16, AAAI'17, IJCAI'17, AAAI'18, IJCAI'18, CAV-AE'18, ICAPS'18, AAAI'19, IJCAI'19, ICAPS'19, AAAI'20 and ICAPS'20.

I served as a Reviewer for the following journals: Constraints, Artificial Intelligence, IJITDM and Mathematical Reviews.

I served as a Reviewer for the following conferences: TACAS'08, FMCAD'12, LPAR'13, IJCAI'13, CP'13, IPS'13, DATE'14, TACAS'14, RCRA'14, TIME'14, FMCAD'14, VMCAI'15, AAAI'15, ATVA'16, CAV'16, IJCAI'16, CPAIOR'17, TACAS'17, CAV'17, SEFM'18, TACAS'18, CP'18, FDL'18, NFM'19 and TACAS'19.

I served as a sub-reviewer for the following journals: Artificial Intelligence, JLAP, STTT and Information Sciences.

Membership in scientific societies

- 2019-present Member of the European AI Alliance.
2018-present Supporter of the Confederation of Laboratories for Artificial Intelligence Research in Europe (CLAIRE).
2013-present Member of the Italian Association for Artificial Intelligence (AI*IA).
2012-present Member of the Association for the Advancement of Artificial Intelligence (AAAI).

International collaborations

- 2019-present On-going collaboration with Alessandro Abate and Muhammad Syifa'ul Mufid (University of Oxford, UK) on using satisfiability modulo theory for the model-checking of MaxPlusLinear dynamical systems.
- 2018-present Collaboration with Daniele Magazzeni, Parisa Zehtabi (King's College London, UK) and Michael Cashmore (University of Strathclyde, UK) on the computation of robustness envelopes for temporal planning with continuous change.
- 2016-present On-going collaboration with Michele Lombardi (University of Bologna) on embedding decision trees in satisfiability modulo theory and constraint programming.
- 2015-2018 Collaboration with David Smith and Minh Do (NASA Ames Research Center, CA, USA) on the problem of strong temporal planning with uncontrollable durations.
- 2014-2016 Collaboration with Luke Hunsberger (Vassar College, NY, USA) and Roberto Posenato (University of Verona, Italy) on the problem of dynamic controllability of temporal networks with disjunctions and conditionals.

Student Supervision

- 2020-present I am currently supervising the bachelor thesis of Stefan Panjkovich concerning complete methods for temporal planning.
- 2020-present I am currently co-supervising with Patrick trentin the internship and bachelor thesis of Francesco Arrighi concerning optimization methods in PySMT.
- 2018-2019 I supervised the master thesis of Alessandro Valentini titled "Temporal Planning with Intermediate Conditions and Effects: Heuristic Search and Compilation in Executable Code" that has been published as a paper at AAAI 2020.

Skills

Communication and Organizational Skills

I am used to work and interact in a formal and multicultural environment. During my Erasmus and the working period in a research environment I gained the ability to communicate and collaborate with people of different ages and levels of expertise to reach shared goals. In those environments I also learned team work and experienced collaborative software development practices.

I have experience in autonomously managing daily activities, both working and academic. I am used to autonomously analyze and solve problems and to meet and cope with assigned deadlines. I also trained many new co-workers and interns on technologies.

Computer Skills

I have a ten-year experience in programming with different languages. I started by developing with Visual Basic and VB.NET under the Windows operating system. I am now an experienced Linux user and I am familiar with many distributions including Ubuntu, Arch and RedHat. I developed many dynamic websites using LAMP and WSGI technologies and I am familiar with JavaScript. I co-developed the EurailCheck tool using Java and integrating on top of the Eclipse platform. The planners I developed are written in modern C++ and I also have a 6+ year experience in Python development. Finally, I am very familiar with \LaTeX for the production of professional documents.

Publications

- 2020 Alessandro Valentini, Andrea Micheli and Alessandro Cimatti. *Temporal Planning with Intermediate Conditions and Effects*. In AAAI 2020.
Nicola Gigante, Andrea Micheli, Angelo Montanari and Enrico Scala. *Decidability and Complexity of Action-Based Temporal Planning over Dense Time*. In AAAI 2020
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