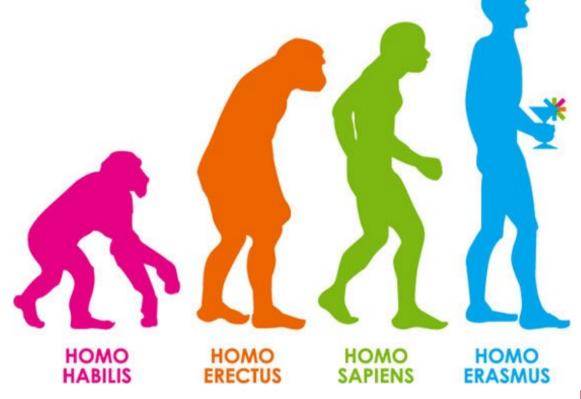
erasmus



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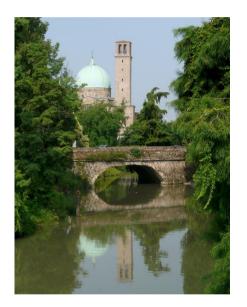
ERASMUS opportunities for U. HELSINKI students in Computer Science





Education and Culture Lifelong Learning Programme ERASMUS Mauro Conti Assistant Professor EU Marie Curie Fellow University of Padua conti@math.unipd.it

Università di Padova *"Universa Universis Patavina Libertas"*



- University of Padua
 - Founded in 1222
 - Member of Coimbra group
 - 40 oldest and most prestigious in Europe

erasmus

- First degree to a woman (1678)
- 2500 faculties / 65000 students
- School of Science:
 - Currently ranked 1st in Italy
 - Hosted: *Galileo Galilei, Nicolaus Copernicus* (more recently): *Federico Faggin, Massimo Marchiori*



City of Padua

- Full of art and history!
- Quite small city (small distances)
- Good public transport
- Close to several research institutes, including:
 - U. of Venice, U. of Bologna, U of Trento, U. of Milan



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PERE

ALILEO GALILEI

P A D O V A, MDCCXLIV Nella Stamperia del Seminario, Apprello Gio: Manfrè.

m Licenza de Saperiori, e Privileg

In quefta nuova Edizione accrefciut di molte cofe inedite. TOMO PRIMO.

Getting to Padua

- Venice airport
 - Regular flights to main EU hubs (from Alitalia, KLM, Lufthansa)
 - Less than 2h flights from main cities in Europe
 - The center of Padua is at some 40' (bus+train)
- At some 60' also Verona Airport and Treviso Airport
- Frequent daily trains to other cities in Italy





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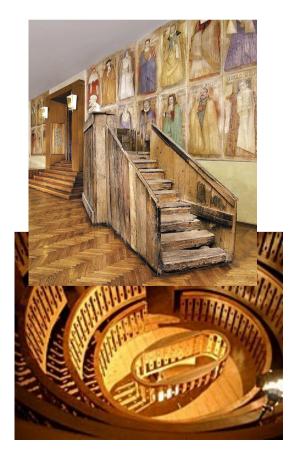


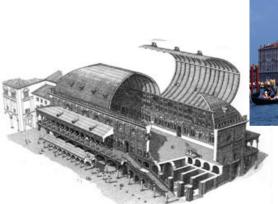


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What you can see...

- "Palazzo Del Bo"
- The Scrovegni Chapel
- "Palazzo della Ragione" (XIII cent.)













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CS@UniPD - Education

ERASMUS for MSc (courses and thesis) PhD (research projects)

Academic Calendar

- I trimester: October and November
- II trimester:
- III trimester:
- mid January to mid March
- mid April to mid June



The following courses are <u>always</u> given in English:

- Wireless Networks (I t.) www.math.unipd.it/~cpalazzi/retiwireless.html
- Cryptography (I t.) www.math.unipd.it/~languasc/Teaching.html
- Static Software Analysis (I t.)
- Bioinformatics (II t.)
- Computer and Network Security (III t.) http://www.math.unipd.it/~conti/teaching.html

Some other courses can be in English if participating internat. students

http://informatica.math.unipd.it/laureamagistrale/corsimagistrale.html





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CS@UniPD - Research

- Programming Languages
 - → Models and languages for concurrent, mobile and distributed systems: process calculi, graph rewriting systems, true concurrent semantics, behavioural equivalences Paolo BALDAN, Silvia CRAFA, Francesco RANZATO
 - → Static analysis and automatic verification techniques for software systems: abstract interpretation, partial order techniques, model based diagnosis, formal approaches to security. <u>Paolo BALDAN, Livio COLUSSI, Silvia CRAFA, Gilberto FILE', Francesco RANZATO</u>
- Artificial Intelligence
 - → Machine learning, pattern recognition, neural networks and kernel methods for structured data, bioinformatics, learning in games, data and business process mining, QSAR studies, time series prediction, information and document retrieval <u>Fabio AIOLLI</u>, <u>Alessandro SPERDUTI</u>
 - → Reasoning with preferences: knowledge representation, constraint satisfaction and optimization, preference modeling, elicitation and aggregation, multi-agent systems, computation social choice <u>Francesca ROSSI</u>
- Systems
 - Development of concurrent, distributed and real-time systems; cloud computing and service orientation <u>Tullio VARDANEGA</u>
 - → Web technologies, social nets, semantic web and complex systems <u>Massimo MARCHIORI</u>
 - Wireless networks, mobile applications, online games, multimedia on the Web, privacy and security <u>Mauro CONTI, Ombretta GAGGI, Claudio Enrico PALAZZI</u>





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Mauro Conti Very-short Bio



EUROPEAN COMMISSION RESEARCH EXECUTIVE AGENCY



- PhD in Computer Science (2009) Sapienza University of Rome, IT
- 2008 Center for Secure Information Systems (CSIS) George Mason University, USA
 - 2009 selected ERCIM "Alain Bensoussan" Fellowship (currently a EU Marie Curie action)
 - 2009-2011 Postdoc at Vrije Universiteit Amsterdam, NL (with by Prof. A.S. Tanenbaum)
 - Nov 2010, visiting researcher at UCLA University of California, Los Angeles, USA
 - from 2011, Assistant Professor at University of Padua, IT
- Jun/Jul 2012 visiting Assistant Professor at UCI University of California Irvine, USA
- From 2012, EU Marie Curie Fellow
 - Published 40+ papers in topmost international peer-reviewed journals and conferences
 - Panelist at ACM CODASPY 2011
 - General Chair for SecureComm 2012 and ACM SACMAT 2013

http://www.math.unipd.it/~conti/





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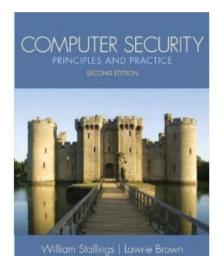
Mauro Conti Computer and Network Security

- Topics
 - I part: Computer Security Technology and Principles; Software Security and Trusted Systems; Management Issues; Cryptographic Algorithms; Network Security
 - II part: <u>Cutting Edge Research Issues; this</u> <u>part includes seminars given by international</u> <u>guests</u>



"The protection provided by encryption is based on the fact that most people would rather eat liver than do mathematics"

Bill Neugent



Possible MSc thesis in my research area...

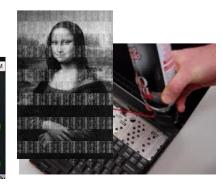














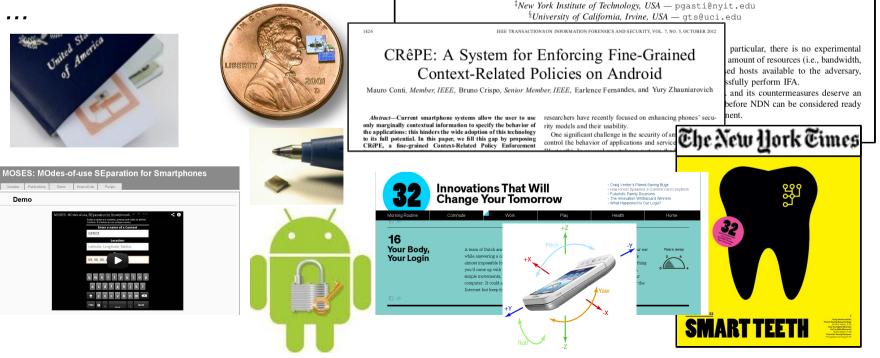


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Mauro Conti Research Area

Security/privacy in: wired/wireless networks, smartphones, social networks, distributed systems, sensor networks, RFID, cloud computing, content centric networking, vehicular networks, location based services, ...





FakeBook: Detecting Fake Profiles in On-line Social Networks

Mauro Conti University of Padua Via Trieste, 63 - Padua, Italy conti@math.unipd.it Radha Poovendran University of Washington Seattle, WA 98195, USA rp3@uw.edu Marco Secchiero University of Padua Via Trieste, 63 - Padua, Italy marco.secchiero@studenti.unipd.it

NDN Interest Flooding Attacks and Countermeasures

Alberto Compagno*, Mauro Conti*, Paolo Gasti[†], Gene Tsudik[‡] *University of Padua, Italy — acompagn@studenti.math.unipd.it [†]University of Padua, Italy — conti@math.unipd.it [‡]New York Institute of Technology, USA — pgasti@nyit.edu [§]University of California, Irvine, USA — gts@uci.edu

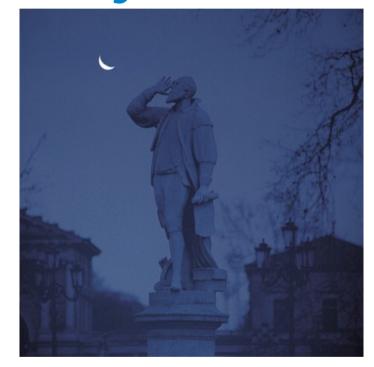




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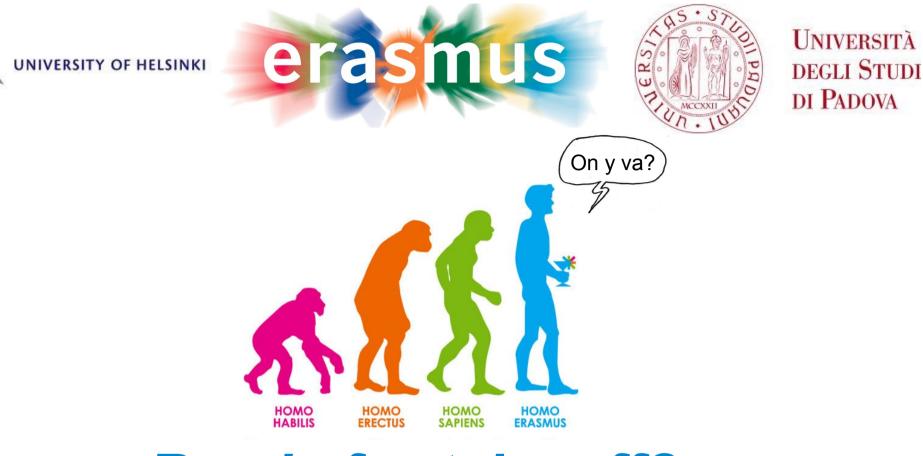
See you soon!



For further information:

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Mohamed Mosbah – Bordeaux1/LaBRI - mosbah@labri.fr



Ready for take off?



