

UMAP2017 BRATISLAVA

25th Conference on User Modeling,
Adaptation and Personalization



Faculty of Informatics and Information Technologies,
Slovak University of Technology in Bratislava

CONFERENCE **GUIDE**

UMAP is the premier international conference for researchers and practitioners working on systems that adapt to individual users, to groups of users, and that collect, represent, and model user information.

9-12th July, 2017
at FIIT STU, Bratislava, Slovakia

CHAIRS

GENERAL CHAIRS

- Eelco Herder, L3S Research Center, Hannover, and Radboud Universiteit Nijmegen
- Maria Bielikova, Slovak University of Technology in Bratislava

PROGRAM CHAIRS

- Federica Cena, University of Torino
- Michel Desmarais, Polytechnique University, Montreal

TRACK CHAIRS

Personalized Recommender Systems

- Bamshad Mobasher, DePaul University
- Jonathan Gemmell, DePaul University

Adaptive Hypermedia and the Semantic Web

- Peter Brusilovsky, University of Pittsburgh

Intelligent User Interfaces

- Nava Tintarev, Delft University of Technology

Technology-Enhanced Adaptive Learning

- Milos Kravcik, German Research Center for Artificial Intelligence

Personalized Social Web

- Luca Maria Aiello, Bell Labs Cambridge

WORKSHOPS AND TUTORIALS CHAIRS

- Cecile Paris, CSIRO ICT Centre
- Olga Santos, Spanish National University for Distance Education

LATE-BREAKING RESULTS AND DEMO CHAIRS

- Marko Tkalcic, Free University of Bolzano
- Dhaval Thakker, University of Leeds

DOCTORAL CONSORTIUM CHAIRS

- Panagiotis Germanakos, SAP SE & University of Cyprus
- Kalina Yacef, University of Sydney

STUDENT SUPPORT CHAIRS

- David Chin, University of Hawaii
- Michal Kompan, Slovak University of Technology in Bratislava

PUBLICITY CHAIRS

- Rikki Prince, University of Southampton
- Cataldo Musto, University of Bari

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- Kirsten Smith, University of Southampton

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From Slovak University of Technology in Bratislava.

- Robert Moro
- Lubica Jancatova
- Eva Dzupinova
- Ondrej Kassak
- Zuzana Kozikova
- Peter Gaspar

SUNDAY

Program overview

Sunday, July 9th						
SMAP		UMAP (workshops & tutorials)				
Time/Room	Turing (-1.58)	Jobs (1.31)	(1.39)	(1.40)	Babbage (-1.57)	Aula Minor (-1.65)
8.00					Registration	
9.00	Opening	EdRecSys session 1		PATCH session 1	HAAPIE session 1	EvalUMAP session 1
	Keynote Peter Bednar					
10.30					Coffee break	
11.00	Session 1	EdRecSys session 2		PATCH session 2	HAAPIE session 2	EvalUMAP session 2
12.30					Lunch	
14.00	Session 2 (special session cultural)	PALE session 1	SOAP session 1	THUM session 1	HAAPIE session 3	EvalUMAP session 3
15.00						
15.30					Coffee break	
16.00	Session 3 (special session cultural - open networking session)	PALE session 2 & 3	SOAP session 2	THUM session 2	HAAPIE session 4	WPPG
17.30						
18.00	SMAP dinner					
22.00						

MONDAY-WEDNESDAY

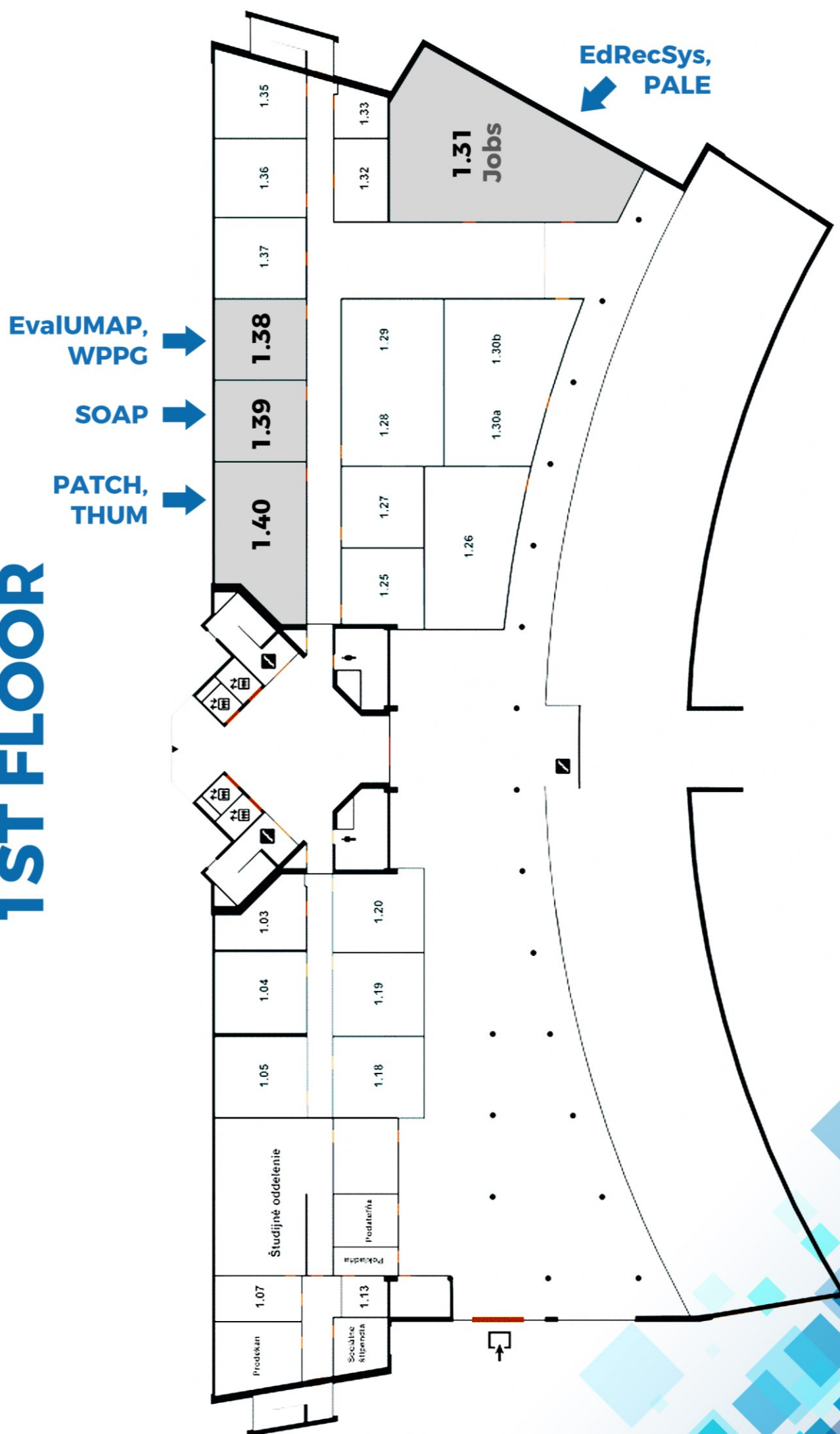
Program overview

Monday, July 10th			
SMAP		UMAP	
Time\Room	Turing (-1.58)	Aula Magna (-1.61)	Aula Minor (-1.65)
8.00		Registration	Conference opening
8.45			
9.00	Shared keynote: Paul de Bra (Aula Magna)		
10.00	Coffee break		
10.30	Session 4	Session 1 Recommender Systems	Session 2 Technology-Enhanced Adaptive Learning
12.00		Session 1 and 2 poster discussion	
12.30	Lunch	Lunch (& SIGCHI volunteers working lunch)	
14.00	Session 5 (special session affective)	DC presentation madness	
14.30		Doctoral consortium 1	Doctoral consortium 2
15.00			
15.30	Coffee break	Poster session 1 (with refreshments) TOR, LBR, demos, DC	
16.00	Session 6		
17.30	Closing		
18.30	UMAP welcome drink		
22.00			

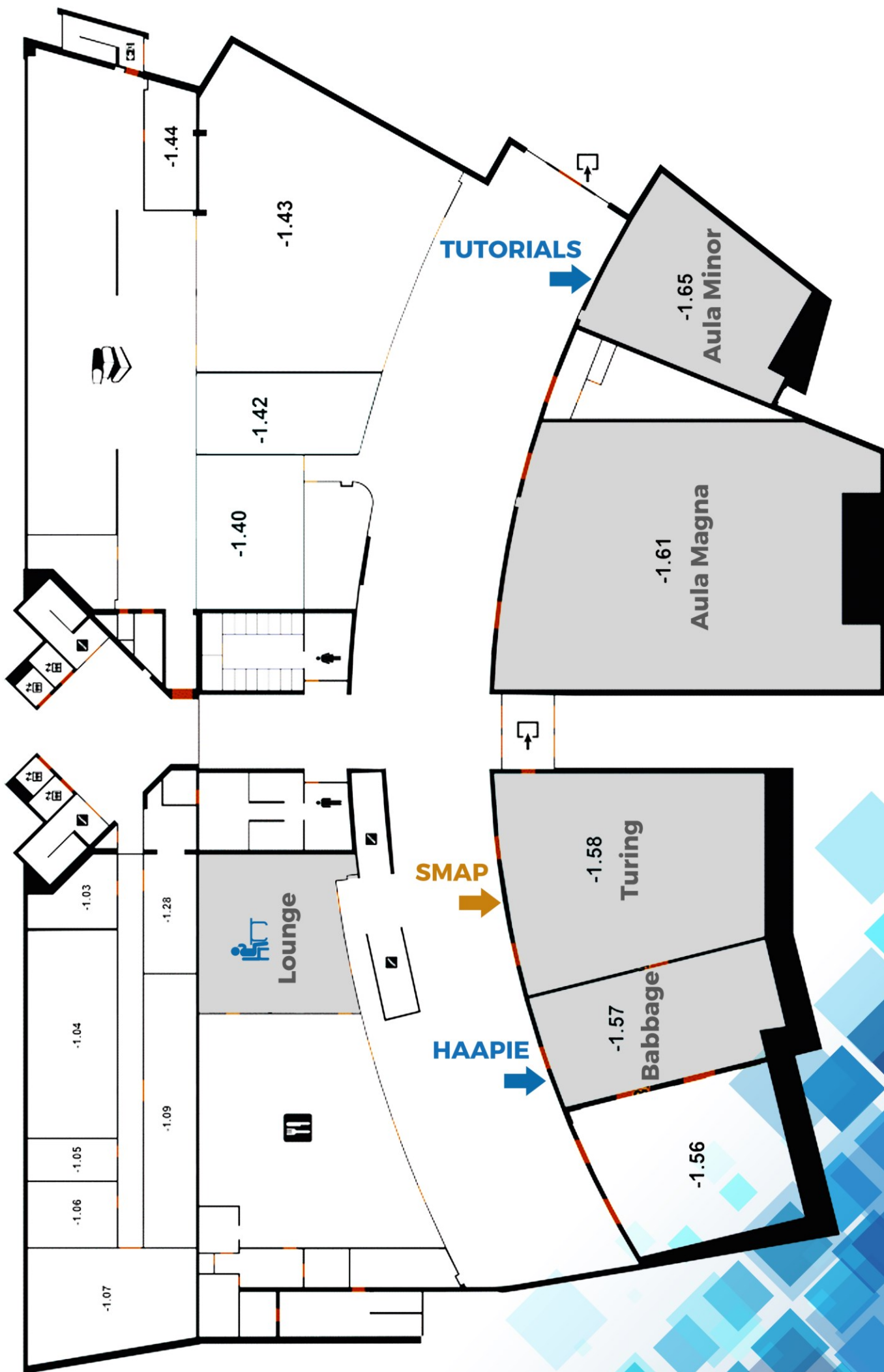
Tuesday, July 11th		UMAP	
		Aula Magna (-1.61)	Aula Minor (-1.65)
		Keynote: Pearl Pu (Aula Magna)	
		Coffee break	
		Session 3 Adaptive Hypermedia, Adaptive Web	Session 4 Personalized Social Web
		Session 3 and 4 poster discussion	
		Lunch (& SIGWEB volunteers working lunch)	
		Session 5 Technology-Enhanced Adaptive Learning	
		Session 5 poster discussion	
		Poster session 2 (with refreshments) Extended abstracts, TOR	
		UMAP conference dinner	

Wednesday, July 12th
UMAP
Aula Magna (-1.61)
Keynote: Jennifer Golbeck (Aula Magna)
Coffee break
Session 6 Recommender Systems
session 6 poster discussion
Lunch
Session 7 Intelligent User Interfaces
Session 7 poster discussion
Conference closing

1ST FLOOR



GROUND FLOOR



SUNDAY

WORKSHOPS

1. EdRecSys: Educational Recommender Systems (room 1.31)

1. **Comparing Peer Recommendation Strategies in a MOOC.**
Bouchet, François (Université Pierre et Marie Curie), Labarthe, Hugues (Université Pierre et Marie Curie), Yacef, Kalina (The University of Sydney), Bachelet, Rémi (University of Lille)
2. **Content Wizard: Concept-Based Recommender System for Instructors of Programming Courses.**
Chau, Hung (University of Pittsburgh), Barria-Pineda, Jordan (University of Pittsburgh), Brusilovsky, Peter (University of Pittsburgh)
3. **Course-Driven Teacher Modeling for Learning Objects Recommendation in the Moodle LMS.**
De Medio, Carlo (Roma Tre University), Gasparetti, Fabio (Roma Tre University), Limongelli, Carla (Roma Tre University), Sciarrone, Filippo (Sapienza University), Temperini, Marco (Sapienza University)
4. **Discovering Hidden Course Requirements and Student Competences from Grade Data.**
Houbraken, Mara (Maastricht University), Sun, Chang (Maastricht University), Smirnov, Evgueni (Maastricht University), Driessens, Kurt (Maastricht University)
5. **Personalized Behavior Recommendation: A Case Study of Applicability to 13 Courses on edX.**
Tang, Steven (University of California, Berkeley), Pardos, Zachary A (University of California, Berkeley)
6. **Recommending Programming Languages by Identifying Skill Gaps Using Analysis of Experts. A Study of Stack Overflow.**
Odiete, Obaro (University of Saskatchewan), Jain, Tanvi (University of Saskatchewan), Adaji, Ifeoma (University of Saskatchewan), Vassileva, Julita (University of Saskatchewan), Deters, Ralph (University of Saskatchewan)
7. **RUTICO: Recommending Successful Learning Paths Under Time Constraints.**
Nabizadeh, Amir H. (Universidade do Porto), Mário Jorge, Alípio (Universidade do Porto), Paulo Leal, José (Universidade do Porto)

2. EvalUMAP: Towards Comparative Evaluation in User Modeling, Adaptation and Personalization (room 1.38)

1. **A Corpus for Modeling Personalities of Web Forum Users.**
Wright, William R. (University of Hawaii at Manoa)
2. **Generating Labeled Datasets of Twitter Users.**
Kiprof, Yassen (Sofia University), Gencheva, Pepa (Sofia University),
Koychev, Ivan (Sofia University)
3. **Layered Evaluation of a Personalized Interaction Approach.**
Augstein, Mirjam (University of Applied Sciences Upper Austria),
Neumayr, Thomas (University of Applied Sciences Upper Austria)
4. **Measuring Predictive Performance of User Models: The Details Matter.**
Pelaneck, Radek (Masaryk University)
5. **On the Reusability of Personalized Test Collections.**
Hashemi, Seyyed H. (University of Amsterdam), Kamps, Jaap (University
of Amsterdam)
6. **Proposing an Evaluation Task for Identifying Struggling Students in
Online Courses.**
Staikopoulos, Athanasios (Trinity College Dublin), Conlan, Owen (Trinity
College Dublin)
7. **Synthesis & Evaluation Of A Mobile Notification Dataset.**
Fraser, Kieran (Trinity College Dublin), Yousuf, Bilal (Trinity College
Dublin), Conlan, Owen (Trinity College Dublin)

3. HAAPIE: Human Aspects in Adaptive and Personalized Interactive Environments (room Babbage -1.57)

1. **A Detailed Analysis of the Impact of Tie Strength and Conflicts on Social
Influence.**
Barile, Francesco (University of Naples Federico II), Masthoff, Judith
(University of Aberdeen), Rossi, Silvia (University of Naples Federico II)
2. **A Personalized Interaction Approach: Motivation and Use Case.**
Augstein, Mirjam (University of Applied Sciences Upper Austria),
Neumayr, Thomas (University of Applied Sciences Upper Austria),
Kurschl, Werner (University of Applied Sciences Upper Austria), Kern,
Daniel (University of Applied Sciences Upper Austria), Burger, Thomas
(LIFEtool), Altmann, Josef (University of Applied Sciences Upper Austria)
3. **Impact of Individual Differences on User Experience with a Visualization
Interface for Public Engagement.**
Lallé, Sébastien (University of British Columbia), Conati, Cristina
(University of British Columbia), Carenini, Giuseppe (University of British
Columbia)

4. **Individual Differences in Music Video Interaction: An exploratory Analysis.**
Kleanthous, Styliani (University of Cyprus), Michael, Grigoris (University of Cyprus), Samaras, George (University of Cyprus), Dimitrova, Vania (University of Leeds)
5. **International Large-Scale Assessments and Culture: Implications for Designing Educational Technology.**
Kapros, Evangelos (Trinity College Dublin)
6. **Leveraging Pupil Dilation Measures for Understanding Users' Cognitive Load During Visualization Processing.**
Toker, Dereck (University of British Columbia), Conati, Cristina (University of British Columbia)
7. **Oblivion Tracking: Towards a Probabilistic Working Memory Model for the Adaptation of Systems to Alzheimer Patients.**
Massoni Sguerra, Bruno (MINES ParisTech & PSL Research University), Jouvelot, Pierre (MINES ParisTech & PSL Research University), Benveniste, Samuel (CEN STIMCO)
8. **Personalizing Social Influence Strategies in a Q&A Social Network.**
Adaji, Ifeoma (University of Saskatchewan), Vassileva, Julita (University of Saskatchewan)
9. **Real-Time Public Transport Navigation on Smartwatches: A Comparison with a Smartphone-based Solution.**
Siddiqui, Sajjad A. (Technical University of Munich), Herzog, Daniel (Technical University of Munich), Wörndl, Wolfgang (Technical University of Munich)
10. **The Influence of City Size on Dietary Choices.**
Cheng, Hao (Leibniz Universität Hannover), Rokicki, Markus (L3S Research Center), Herder, Eelco (L3S Research Center & Radboud Universiteit Nijmegen)
11. **Towards Adaptive Height-Aware Public Interactive Displays.**
Parker, Callum (University of Sydney), Fredericks, Joel (University of Sydney), Tomitsch, Martin (University of Sydney), Yoo, Soojeong (University of Sydney)

4. **THUM: Temporal and Holistic User Modeling (room 1.40)**

1. **An Approach to Improve Physical Activity by Generating Individual Implementation Intentions.**
Dogangün, Aysegül (University of Duisburg-Essen), Schwarz, Michael (University of Duisburg-Essen), Kloppenborg, Katharina (University of Duisburg-Essen), Le, Robert (University of Duisburg-Essen)
2. **HappyFit: Time-aware Visualization for Daily Physical Activity and Virtual Reality Games.**
Yoo, Soojeong (University of Sydney), Xue, Lichen (University of Sydney), Kay, Judy (University of Sydney)

3. **Predicting Age and Gender by Keystroke Dynamics and Mouse Patterns.**
Pentel, Avar (Tallinn University)
4. **Social Recommendation with Time and Sentiment Analysis.**
Giammarino, Domenico (Roma Tre University), Feltoni Gurini, Davide (Roma Tre University), Micarelli, Alessandro (Roma Tre University), Sansonetti, Giuseppe (Roma Tre University)
5. **User's Social Media Profile as Predictor of Empathy.**
Polignano, Marco (University of Bari), Basile, Pierpaolo (University of Bari), Rossiello, Gaetano (University of Bari), de Gemmis, Marco (University of Bari), Semeraro, Giovanni (University of Bari)

5. PALE: Personalization Approaches in Learning Environments (room 1.31)

1. **BIG-AFF: Exploring Low Cost and Low Intrusive Infrastructures for Affective Computing in Secondary Schools.**
Boticario, Jesus G. (UNED), Santos, Olga C. (UNED), Cabestrero, Raul (UNED), Quirós, Pilar (UNED), Salmerón-Majadas, Sergio (UNED), Uria-Rivas, Raúl (UNED), Saneiro, Mar (UNED), Arevalillo-Herráez, Miguel (Universitat de Valencia), Ferri, Francesc J. (Universitat de Valencia)
2. **Conceptualizing a framework for Adaptive Exercise Selection with Personality as a Major Learner characteristic.**
Okpo, Juliet (University of Aberdeen), Masthoff, Judith (University of Aberdeen), Dennis, Matt (University of Portsmouth), Beacham, Nigel (University of Aberdeen)
3. **Education-specific Tag Recommendation in CQA Systems.**
Babinec, Peter (Slovak University of Technology), Srba, Ivan (Slovak University of Technology)
4. **Experiences Using an Interactive Presentation Platform in a Functional and Logic Programming Course.**
Triglianios, Vasileios (USI Lugano), Labaj, Martin (Slovak University of Technology in Bratislava), Moro, Robert (Slovak University of Technology in Bratislava), Simko, Jakub (Slovak University of Technology in Bratislava), Hucko, Michal (Slovak University of Technology in Bratislava), Tvarozek, Jozef (Slovak University of Technology in Bratislava), Pautasso, Cesare (USI Lugano), Bielikova, Maria (Slovak University of Technology in Bratislava)
5. **Modeling Psychomotor Activity: Current Approaches and Open Issues.**
Santos, Olga C. (UNED), Eddy, Martha H. (Center for Kinesthetic Education)
6. **Should Learning Material's Selection be Adapted to Learning Style and Personality?**
Alhathli, Manal (University of Aberdeen), Masthoff, Judith (University of Aberdeen), Siddharthan, Advait (University of Aberdeen)

7. **Should We Give Learners Control Over Item Difficulty?**
Papousek, Jan (Masaryk University), Pelanek, Radek (Masaryk University)

6. **PATCH: Personalized Access to Cultural Heritage (room 1.40)**

1. **A Social Cultural Recommender based on Linked Open Data.**
De Angelis, Alessio (Roma Tre University), Gasparetti, Fabio (Roma Tre University), Micarelli, Alessandro (Roma Tre University), Sansonetti, Giuseppe (Roma Tre University)
2. **Busy versus Empty Museums: Effects of Visitors' Crowd on Users' Behaviors in Smart Museums.**
Hashemi, Seyyed H. (University of Amsterdam), Kamps, Jaap (University of Amsterdam), Hupperetz, Wim (University of Amsterdam)
3. **Cultural Heritage Gaming: Effects of Human Cognitive Styles on Players' Performance and Visual Behavior.**
Raptis, George E. (University of Patras), Fidas, Christos (University of Patras), Avouris, Nikolaos (University of Patras)
4. **Do Museum Visitors See what Educators Want Them to See?.**
Al-Baddai, Saad (University Regensburg), Ströhl, Barbara (University Regensburg), Lang, Elmar W. (University Regensburg), Ludwig, Bernd (University Regensburg)
5. **Empowering CH Experts to Produce IoT-enhanced Visits.**
Ardito, Carmelo (Università degli Studi di Bari Aldo Moro), Buono, Paolo (Università degli Studi di Bari Aldo Moro), Desolda, Giuseppe (Università degli Studi di Bari Aldo Moro), Matera, Maristella (Politecnico di Milano, DEIB)
6. **Thematic Maps for Geographical Information Search.**
Mauro, Noemi (University of Turin), Ardissono, Liliana (University of Turin)
7. **When will Cultural Heritage Content Creation Get to the Digital Age?.**
Kuflik, Tsvi (University of Haifa), Lo Bue, Antonino (Independent Researcher), Stock, Oliviero (FBK-irst), Wecker, Alan J. (University of Haifa)

7. **SOAP: Surprise, Opposition, and Obstruction in Adaptive and Personalized Systems (room 1.39)**

1. **A Framework for Computational Serendipity.**
Niu, Xi (University of North Carolina at Charlotte), Abbas, Fakhri (University of North Carolina at Charlotte)
2. **Distance- and Rank-based Music Mainstreamness Measurement.**
Schedl, Markus (Johannes Kepler University Linz), Bauer, Christine (Johannes Kepler University Linz)

3. **Graph Embedding Based Recommendation Techniques on the Knowledge Graph.**
Grad-Gyenge, László (Eötvös Loránd University), Kiss, Attila (Eötvös Loránd University), Filzmoser, Peter (TU Vienna)
4. **Introducing Surprise and Opposition by Design in Recommender Systems.**
Bauer, Christine (Johannes Kepler University Linz), Schedl, Markus (Johannes Kepler University Linz)

8. **WPPG: Fifty Shades of Personalization – Workshop on Personalization in Serious and Persuasive Games and Gameful Interactions (room 1.38)**

1. **A Comparison of System-Controlled and User-Controlled Personalization Approaches.**
Orji, Rita (University of Waterloo), Oyibo, Kiemute (University of Saskatchewan), Tondello, Gustavo F. (University of Waterloo),
2. **A Gamified System For Influencing Healthy E-commerce Shopping Habits.**
Adaji, Ifeoma (University of Saskatchewan), Vassileva, Julita (University of Saskatchewan)
3. **An Adaptive Learning with Gamification & Conversational UIs: The Rise of CiboPoliBot.**
Fadhil, Ahmed (Fondazione Bruno Kessler (FBK-irst) & CRG - GPI Research Centre), Villafiorita, Adolfo (Fondazione Bruno Kessler (FBK-irst))
4. **Designing a Personalized VR Exergame.**
Yoo, Soojeong (University of Sydney), Parker, Callum (University of Sydney), Kay, Judy (University of Sydney)
5. **Investigation of the Social Predictors of Competitive Behavior and the Moderating Effect of Culture.**
Oyibo, Kiemute (University of Saskatchewan), Orji, Rita (University of Waterloo), Vassileva, Julita (University of Saskatchewan)
6. **Qualitative Study into Adapting Persuasive Games for Mental Wellbeing to Personality, Stressors and Attitudes.**
Ciocarlan, Ana (University of Aberdeen), Masthoff, Judith (University of Aberdeen), Oren, Nir (University of Aberdeen)
7. **Recommender Systems for Personalized Gamification.**
Tondello, Gustavo F. (University of Waterloo), Orji, Rita (University of Waterloo), Nacke, Lennart E. (University of Waterloo)

TUTORIALS

T 10. Semantics-aware Techniques for Social Media Analysis, User Modelling, and Recommender Systems (-1.65 Aula Minor)

Pasquale Lops, Cataldo Musto

T 11. Designing Cross-Space Learning Analytics and Personalised Support (-1.65 Aula Minor)

Roberto Martinez-Maldonado, Abelardo Pardo and Davinia Hernandez-Leo

SMAP (TURING -1.58)

SESSION 1 (Sunday 11:00) – Personalized Search and Social Networks

Chair: Ioannis Anagnostopoulos

1. **Forecasting elections from VAA data: What the undecided would vote?**
Nicolas Tsapatsoulis and Marilena Agathokleous
2. **A survey on political event analysis in Twitter**
Michalis Korakakis, Evaggelos Spyrou and Phivos Mylonas
3. **Sentiment Analysis of Social Network Posts in Slovak Language**
Rastislav Krchnavy and Marian Simko
4. **Personalized Query Expansion Utilizing Multi-Relational Social Data**
Xuan Wu, Dong Zhou, Yu Xu and Séamus Lawless

SESSION 2 (Sunday 14:00) – Special Session on Personalized Delivery of Cultural Heritage Content

Chairs: Martin Lopez-Nores and Yannick Naudet

1. **Exploiting Relevant Dates to Promote Serendipity and Situational Curiosity in Cultural Heritage Experiences**
Ahmed Dahroug, Martin Lopez-Nores, Jose Juan Pazos-Arias, Silvia Gonzalez-Soutelo, Susana María Rebores-Morillo and Angeliki Antoniou
2. **Personalized Augmented Reality Experiences in Museums using Google Cardboards**
Marinos Theodorakopoulos, Nikos Papageorgopoulos, Andriana Mourtou, Angeliki Antoniou, Manolis Wallace, George Lepouras, Costas Vassilakis and Nikos Platis

3. **Self-organizing Museum Visitor Communities: A Participatory Action Research based Approach**
Eirini Eleni Tsiropoulou, Athina Thanou, Surya Paruchuri and Symeon Papavassiliou
4. **Formalising and evaluating Cultural User Experience**
Markos Konstantakis, Konstantinos Michalakis, John Aliprantis, Eirini Kalatha and George Caridakis
5. **A Graph-based Semantic Recommender System for a Reflective and Personalised Museum Visit**
Louis Deladiennee and Yannick Naudet
6. **UMAP PATCH: Personalized Access to Cultural Heritage** – short presentations of PATCH workshop papers

SESSION 3 (Sunday 16:00) – Open Networking Session: The Future of Personalized Delivery of Cultural Heritage

Chair: Manolis Wallace

In this session we hope to build on the presence of a high number of researchers who are active in the area, due to the collocation of SMAP, UMAP and PATCH, and see what more we can do together. To trigger interaction short panel presentations will present opportunities for participation in planned EU project proposals, in an ongoing project, in a UMUAI special issue as well as in future editions of PATCH. We hope you will start by joining us in the session and continue with us in the SMAP social event (should be registered in advance).

Panelists:

1. Martin Lopez Nores – *New project proposals currently in preparation and call for partners*
2. Yannick Naudet – *Call for participation in project CrossCult*
3. Tsvi Kuflik – *UMUAI special issue on personalized delivery of cultural heritage content*
4. Liliana Ardissono – *PATCH 2018 and beyond*

PROGRAM UMAP2017

MONDAY



Keynote Speaker

Paul de Bra

**After Twenty-five Years of User Modeling
and Adaptation... What Makes us UMAP?**

Conference opening (8:45 – 9:00)

Keynote (9:00 | Aula Magna)

Chair: Eelco Herder

Coffee break (10:00) & 25TH ANNIVERSARY CAKE



Session 1 (10:30 | Aula Magna) - Recommender Systems

Chair: Robin Burke

- 1. Long and Short-Term Recommendations with Recurrent Neural Networks.**
Devooght, Robin (Université Libre de Bruxelles), Bersini, Hugues (Université Libre de Bruxelles)
- 2. A Multi-Armed Bandit Model Selection for Cold-Start User Recommendation.**
Felício, Crícia Z. (Instituto Federal do Triângulo Mineiro), Paixão, Klérisson V. R. (Universidade Federal de Uberlândia), Barcelos, Celia A. Z. (Universidade Federal de Uberlândia), Preux, Philippe (Université de Lille & CRISTAL)
- 3. User Perception of Next-Track Music Recommendations.**
Kamehkhosh, Iman (TU Dortmund), Jannach, Dietmar (TU Dortmund)
- 4. A new statistical density clustering algorithm based on mutual vote and subjective logic applied to recommender systems.**
Haydar, Charif (Sailendra), Boyer, Anne (University of Lorraine)

5. Interactive Prior Elicitation of Feature Similarities for Small Sample Size Prediction.

Afrabandpey, Hodayun (Aalto University), Peltola, Tomi (Aalto University), Kaski, Samuel (Aalto University)

6. The Force Within: Recommendations Via Gravitational Attraction Between Items.

Kumar, Vikas (University of Minnesota), Bakhshi, Saeideh (Facebook Inc.), Kennedy, Lyndon (Futurewei Technologies, Inc.), Shamma, David A. (Centrum Wiskunde & Informatica)

Session 2 (10:30 | Aula Minor) - Technology-Enhanced Adaptive Learning

Chair: Milos Kravcik

1. Let's dance: how to build a user model for dance students using wearable technology.

Dias Pereira dos Santos, Augusto (University of Sydney), Yacef, Kalina (University of Sydney), Martinez-Maldonado, Roberto (University of Technology Sydney)

2. Using Learning Analytics to Devise Interactive Personalised Nudges for Active Video Watching.

Dimitrova, Vania (University of Leeds), Mitrovic, Antonija (University of Canterbury), Piotrkowicz, Alicja (University of Leeds), Lau, Lydia (University of Leeds), Weerasinghe, Amali (University of Adelaide, Australia)

3. Learner Modeling for Integration Skills.

Huang, Yun (University of Pittsburgh), Guerra-Hollstein, Julio (Universidad Austral de Chile), Barria-Pineda, Jordan (University of Pittsburgh), Brusilovsky, Peter (University of Pittsburgh)

4. Investigating the Impact of Personality and Cognitive Efficiency on the Selection of Exercises for Learners.

Okpo, Juliet (University of Aberdeen), Masthoff, Judith (University of Aberdeen), Dennis, Matt (University of Portsmouth), Beacham, Nigel (University of Aberdeen), Ciocarlan, Ana (University of Aberdeen)

5. Enhancing Student Models in Game-based Learning with Facial Expression Recognition.

Sawyer, Robert (North Carolina State University), Smith, Andy (North Carolina State University), Rowe, Jonathan (North Carolina State University), Azevedo, Roger (North Carolina State University), Lester, James (North Carolina State University)

6. Imputing KCs with Representations of Problem Content and Context.

Pardos, Zachary A. (University of California, Berkeley), Dadu, Anant (IIT (BHU) Varanasi)



Poster discussion for sessions 1 and 2 (12:00 - 12:30)

Lunch (12:30)

Doctoral consortium presentation madness (14:00)

Chairs: Panagiotis Germanakos, Kalina Yacef

Doctoral consortium session 1 (14:30 – 15:30 | -1.61 Aula Magna)

1. **Conversational Group Recommender Systems.**
Nguyen, Thuy N. (Free University of Bozen-Bolzano)
2. **Analyzing the Impact of Social Connections on Rating Behavior in Social Recommender Systems.**
Mukamakuza, Carine P. (TU Wien)
3. **Towards Improving E-commerce Users Experience Using Personalization & Persuasive Technology.**
Adaji, Ifeoma (University of Saskatchewan)
4. **Personalized Research Paper Recommendation using Deep Learning.**
Hassan, Hebatallah A. M. (Roma Tre University)

Doctoral consortium session 2 (14:30 – 15:30 | -1.65 Aula Minor)

1. **Harnessing Virtual Reality Exergames and Physical Fitness Sensing to Create a Personalised Game and Dashboard.**
Yoo, Soojeong (University of Sydney)
2. **Smart Technology for Supporting Dance Education.**
Dias Pereira dos Santos, Augusto (The University of Sydney)
3. **Modelling User Behaviour based on Process.**
Zhuang, Mengdie (University of Sheffield)

Poster session 1 (with coffee & refreshments) (15:30)

Chairs: Marko Tkalcić, Dhaval Thakker

Demo

1. **Semantic Interpretation of Search Queries for Personalization.**
Ardissono, Liliana (University of Torino), Lucenteforte, Maurizio (University of Torino), Mauro, Noemi (University of Torino), Savoca, Adriano (University of Torino), Voghera, Angioletta (Politecnico di Torino), La Riccia, Luigi (Politecnico di Torino)
2. **A Web-based Application for Recommending Travel Regions.**
Wörndl, Wolfgang (Technical University of Munich)

Theory, opinion and reflection

1. **Toward Caring Assessment Systems.**
Zapata-Rivera, Diego (Educational Testing Service)
2. **Psychomotor Learning in Martial Arts: an Opportunity for User Modeling, Adaptation and Personalization.**
Santos, Olga C. (UNED)

Late breaking results

1. **Certificate Achievement Unlocked: How Does MOOC Learners' Behaviour Change?**
Zhao, Yue (Delft University of Technology), Davis, Dan (Delft University of Technology), Chen, Guanliang (Delft University of Technology), Lofi, Christoph (Delft University of Technology), Hauff, Claudia (Delft University of Technology), Houben, Geert-Jan (Delft University of Technology)
2. **"OMG! How did it know that?" Reactions to Highly-Personalized Ads.**
Matic, Aleksandar (Telefonica Alpha), Pielot, Martin (Telefonica Research), Oliver, Nuria (Vodafone Research)
3. **Everybody, More or Less, likes Serendipity.**
Maccatrozzo, Valentina (Vrije Universiteit Amsterdam), van Everdingen, Eveline (Vrije Universiteit Amsterdam), Aroyo, Lora (Vrije Universiteit Amsterdam), Schreiber, Guus (Vrije Universiteit Amsterdam)
4. **Automated Data-Driven Hints for Computer Programming Students.**
Chow, Sammi (The University of Sydney), Yacef, Kalina (The University of Sydney), Koprinska, Irena (The University of Sydney), Curran, James (The University of Sydney)
5. **Aspect-aware Point-of-Interest Recommendation with Geo-Social Influence.**
Guo, Qing (Nanyang Technological University & SAP Innovation Center Network Singapore), Sun, Zhu (Nanyang Technological University), Zhang, Jie (Nanyang Technological University), Chen, Qi (SAP Innovation Center Singapore), Theng, Yin-Leng (Nanyang Technological University)
6. **Personalised Diversification Using Intent-Aware Portfolio.**
Wasilewski, Jacek (University College Dublin), Hurley, Neil (University College Dublin)
7. **The TagRec Framework as a Toolkit for the Development of Tag-Based Recommender Systems.**
Kowald, Dominik (Graz University of Technology), Kopeinik, Simone (Graz University of Technology), Lex, Elisabeth (Graz University of Technology)

8. **Learning User Preferences by Observing User-Items Interactions in an IoT Augmented Space.**
Massimo, David (Free University of Bolzano-Bozen), Elahi, Mehdi (Free University of Bolzano-Bozen), Ricci, Francesco (Free University of Bolzano-Bozen)
9. **The Influence of Culture in the Effect of Age and Gender on Social Influence in Persuasive Technology.**
Oyibo, Kiemute (University of Saskatchewan), Orji, Rita (University of Waterloo), Vassileva, Julita (University of Saskatchewan)
10. **On the Relations Between Cooking Interests, Hobbies and Nutritional Values of Online Recipes: Implications for Health-Aware Recipe Recommender Systems.**
Trattner, Christoph (MODUL University Vienna), Rokicki, Markus (L3S Research Center), Herder, Eelco (L3S Research Center & Radboud Universiteit Nijmegen)
11. **Leveraging Interfaces to Improve Recommendation Diversity.**
Tsai, Chun-Hua (University of Pittsburgh), Brusilovsky, Peter (University of Pittsburgh)
12. **The Influence of Personality on Mobile Web Credibility.**
Oyibo, K. (University of Saskatchewan), Orji, R. (University of Waterloo), Vassileva, J. (University of Saskatchewan)
13. **A Data-driven Approach to Identifying Music Listener Groups based on Users' Playrate Distributions of Listening Events.**
Yoo, Sooyeon (Seoul National University), Lee, Kyogu (Seoul National University)
14. **A Comprehensive Approach to Group Recommendations in the Travel and Tourism Domain.**
Delic, Amra (Vienna University of Technology (TU Wien)), Neidhardt, Julia (Vienna University of Technology (TU Wien))

Doctoral consortium full papers

1. **Modelling User Behaviour based on Process.**
Zhuang, Mengdie (University of Sheffield)
2. **Analyzing the Impact of Social Connections on Rating Behavior in Social Recommender Systems.**
Mukamakuza, Carine P. (TU Wien)
3. **Conversational Group Recommender Systems.**
Nguyen, Thuy N. (Free University of Bozen-Bolzano)
4. **Harnessing Virtual Reality Exergames and Physical Fitness Sensing to Create a Personalised Game and Dashboard.**
Yoo, Soojeong (University of Sydney)
5. **Personalized Research Paper Recommendation using Deep Learning.**
Hassan, Hebatallah A. M. (Roma Tre University)

6. **Smart Technology for Supporting Dance Education.**
Dias Pereira dos Santos, Augusto (The University of Sydney)
7. **Towards Improving E-commerce Users Experience Using Personalization & Persuasive Technology.**
Adaji, Ifeoma (University of Saskatchewan)

Doctoral consortium abstracts

8. **Addressing Temporal Aspects in User Modelling.**
Bogina, Veronika (Haifa University)
9. **Modelling User Behaviors with Evolving Users and Catalogs of Evolving Items.**
Cella, Leonardo (Politecnico di Milano)
10. **Adaptive Support For Group Formation In Computer Supported Collaborative Learning.**
Adetunji, Adeniran (University of Aberdeen)
11. **An Approach to Social News Recommendation based on Focused Crawling and Sentiment Analysis.**
Amadei, Matteo (Roma Tre University)
12. **Modeling and Developing a Learning Design System based on Graphic Organizers.**
Corbatto, Marco (University of Udine)
13. **Propensity Modelling for Intelligent Content.**
Storan Clarke, Rebekah (Trinity College)

Welcome drink (18:30 – 20:30)

SMAP (TURING -1.58)

SESSION 4 (Monday 10:30) – Data Analysis and Machine Learning

Chair: Phivos Mylonas

1. **Efficient Big Data Analysis on a Single Machine using Apache Spark and Self-Organizing Map Libraries**
David Andresic, Petr Saloun and Ioannis Anagnostopoulos
2. **Predicting the Evolution of Communities in Social Networks Using Structural and Temporal Features**
Maria Evangelia Pavlopoulou, Grigorios Tzortzis, Dimitrios Vogiatzis and Georgios Paliouras
3. **A density based algorithm for community detection in hyper-networks**
Dimitrios Vogiatzis and Alexandros Dimitrios Keros

4. **Feature extraction for tweet classification: Do the humans perform better?**
Nicolas Tsapatsoulis and Constantinos Djouvas
5. **Visual Pollution Localization through Crowdsourcing and Visual Similarity Clustering**
Zuzana Kucharikova and Jakub Simko

SESSION 5 (Monday 14:00) - Special Session on Multimodal Affective Analysis for Human-Machine Interfaces and Learning Environments

Chairs: Enrique Hortal and Evaggelos Spyrou

1. **Affect State Recognition for Adaptive Human Robot Interaction in Learning Environments**
Dimitrios Antonaras, Charis Pavlidis, Nicholas Vretos and Petros Daras
2. **High-performance and Lightweight Real-time Deep Face Emotion Recognition**
Justus Schwan, Esam Ghaleb, Enrique Hortal and Stylianos Asteriadis
3. **Extracting Emotions from Speech using a Bag-of-Visual-Words Approach**
Evaggelos Spyrou, Theodoros Giannakopoulos, Dimitrios Sgouropoulos and Michalis Papakostas
4. **Towards Adaptive Brain-Computer Interfaces: Improving Accuracy of Detection of Event-Related Potentials**
Robert Moro, Patrik Berger and Maria Bielikova

SESSION 6 (Monday 16:00) - Text and Language Processing

Chair: Nicolas Tsapatsoulis

1. **Customer Language Processing**
Amelie Isabel Metzmacher, Verena Heinrichs, Björn Falk and Robert Heinrich Schmitt
2. **Detecting Genuinely Read Parts of Web Documents**
Patrik Hlavac and Marian Simko
3. **Using Social Networks to Predict Changes in Health**
Karen Jung and Ozan Tonguz

TUESDAY



Keynote Speaker

Pearl Pu

Emotion Analysis in Natural Language

Keynote (9:00 | Aula Magna)

Chair: Michel Desmarais

Coffee break (10:00)

Session 3 (10:30 | Aula Magna) - Adaptive Hypermedia, Adaptive Web

Chair: Peter Brusilovsky

- 1. Where To Go Next? Exploiting Behavioral User Models in Smart Environments.**
Hashemi, Seyyed H. (University of Amsterdam), Kamps, Jaap (University of Amsterdam)
- 2. Inferring Contextual Preferences Using Deep Auto-Encoding.**
Unger, Moshe (Ben-Gurion University of the Negev), Shapira, Bracha (Ben-Gurion University of the Negev), Rokach, Lior (Ben-Gurion University of the Negev), Bar, Ariel (Ben-Gurion University of the Negev)
- 3. “Personal Social Dashboard”: A Tool for Measuring Your Social Engagement Effectiveness in the Enterprise.**
Kremer-Davidson, Shiri (IBM Research - Haifa), Ronen, Inbal (IBM Research - Haifa), Kaplan, Avi (IBM Research - Haifa), Barnea, Maya (IBM Research - Haifa)
- 4. Get to the Bottom: Causal Analysis for User Modeling.**
BEST PAPER CANDIDATE
Zong, Shi (Ohio State University), Kveton, Branislav (Adobe Research), Berkovsky, Shlomo (CSIRO), Ashkan, Azin (Google Inc. & Technicolor Research), Wen, Zheng (Adobe Research)
- 5. Multilingual Search User Behaviors - Exploring Multilingual User Querying And Result Selection Through Crowdsourcing.**
Lowe, Ryan (Santa Clara University), Steichen, Ben (Santa Clara University)

6. **Personality Traits and Music Genres: What Do People Prefer to Listen To?**
Ferwerda, Bruce (Johannes Kepler University), Tkalcic, Marko (Free University of Bozen-Bolzano), Schedl, Markus (Johannes Kepler University)

Session 4 (10:30 | Aula Minor) - Personalized Social Web

Chair: Geert-Jan Houben

1. **Nudge your Workforce. A Study on the Effects of Task Notification Strategies in Enterprise Mobile Crowdsourcing.**
Bashirieh, Sarah (Delft University of Technology), Mesbah, Sepideh (Delft University of Technology), Redi, Judith (Delft University of Technology), Bozzon, Alessandro (Delft University of Technology), Szilávik, Zoltán (IBM Benelux), Sips, Robert-Jan (IBM Benelux)
2. **Inferring Students' Sense of Community from Their Communication Behavior in Online Courses.**
Wu, Wen (Hong Kong Baptist University), Chen, Li (Hong Kong Baptist University), Yang, Qingchang (Hong Kong Baptist University)
3. **Adaptive City Characteristics: How Location Familiarity Changes What Is Regionally Descriptive.**
Kumar, Vikas (University of Minnesota), Bakhshi, Saeideh (Facebook Inc.), Kennedy, Lyndon (Futurewei Technologies, Inc.), Shamma, David A. (Centrum Wiskunde & Informatica)
4. **Group Recommendations by Learning Rating Behavior.**
[BEST PAPER CANDIDATE](#)
Sacharidis, Dimitris (TU Wien)
5. **A Clustering Approach for Personalizing Diversity in Collaborative Recommender Systems.**
Eskandanian, Farzad (DePaul University), Mobasher, Bamshad (DePaul University), Burke, Robin (DePaul University)
6. **Encoding users as more than the sum of their parts.**
Lefebvre-Brossard, Antoine (Polytechnique Montréal), Spaeth, Alexandre (e-180.com and Polytechnique Montréal), Desmarais, Michel C. (Polytechnique Montréal)

 **Poster discussion for sessions 3 and 4 (12:00 - 12:30)**

Lunch (12:30)

Chair: Federica Cena

1. **Out of the Fr-“Eye”-ing Pan: Towards Gaze-Based Models of Attention during Learning with Technology in the Classroom.**
BEST PAPER CANDIDATE
Hutt, Stephen (University of Notre Dame), Mills, Caitlin (University of British Columbia), Bosch, Nigel (University of Illinois at Urbana-Champaign)
2. **Experimental Analysis of Mastery Learning Criteria.**
BEST PAPER CANDIDATE
Pelaneck, Radek (Masaryk University), Rihak, Jiri (Masaryk University)
3. **Stereotype Modeling for Problem-Solving Performance Predictions in MOOCs and Traditional Courses.**
BEST PAPER CANDIDATE
Hosseini, Roya (University of Pittsburgh), Brusilovsky, Peter (University of Pittsburgh), Yudelso, Michael (Carnegie Mellon University), Hellas, Arto (University of Helsinki)
4. **Fine-Grained Open Learner Models: Complexity Versus Support iui.**
BEST PAPER CANDIDATE
Guerra-Hollstein, Julio (Universidad Austral de Chile), Barria-Pineda, Jordan (University of Pittsburgh), Schunn, Christian D. (University of Pittsburgh), Bull, Susan (University College London), Brusilovsky, Peter (University of Pittsburgh)
5. **Measuring student behaviour dynamics in a large interactive classroom setting.**
Triglianos, Vasileios (University of Lugano), Praharaj, Sambit (Delft University of Technology), Pautasso, Cesare (University of Lugano), Bozzon, Alessandro (Delft University of Technology), Hauff, Claudia (Delft University of Technology)
6. **Modelling Embodied Mobility Teamwork Strategies in a Simulation-Based Healthcare Classroom.**
Martinez-Maldonado, Roberto (University of Technology Sydney), Pechenizkiy, Mykola (Eindhoven University of Technology), Buckingham-Shum, Simon (University of Technology Sydney), Power, Tamara (University of Technology Sydney), Hayes, Carolyn (University of Technology Sydney), Axisa, Carmen (University of Technology Sydney)

 **Poster discussion for session 5 (15:30 – 16:00)**

Poster session 2 (with coffee & refreshments) (16:00)

Chair: Michel Desmarais

Demo

3. **Forró Trainer: Automated Feedback for Partner Dance Learning.**
Dias Pereira dos Santos, Augusto (University of Sydney), Yacef, Kalina (University of Sydney), Martinez-Maldonado, Roberto (University of Technology Sydney)

Theory, opinion and reflection

3. **User Nutrition Modelling and Recommendation – Balancing Simplicity and Complexity.**
Schäfer, Hanna (Technical University of Munich), Elahi, Mehdi (Free University of Bozen-Bolzano), Elswiler, David (University of Regensburg), Groh, Georg (Technical University of Munich), Harvey, Morgan (Northumbria University), Ludwig, Bernd (University of Regensburg), Ricci, Francesco (Free University of Bozen-Bolzano), Said, Alan (University of Skövde)

Extended abstracts

1. **Enhancing Collaborative Filtering with Friendship Information.**
Ardissono, Liliana (Università di Torino), Ferrero, Maurizio (Università di Torino), Petrone, Giovanna (Università di Torino), Segnan, Marino (Università di Torino)
2. **Combining Supervised and Unsupervised Learning to Discover Emotional Classes.**
Arevalillo-Herráez, Miguel (Universitat de Valencia), Ayesh, Aladdin (De Montfort University), Santos, Olga C. (UNED), Arnau-González, Pablo (University of the West of Scotland)
3. **Behavioral Patterns Mining for Online Time Personalization.**
Chovanak, Tomas (Slovak University of Technology in Bratislava), Kassak, Ondrej (Slovak University of Technology in Bratislava), Bielikova, Maria (Slovak University of Technology in Bratislava)
4. **Sequences of Diverse Song Recommendations: An Exploratory Study in a Commercial System.**
Tintarev, Nava (Delft University of Technology), Lofi, Christoph (Delft University of Technology), Liem, Cynthia C. S. (Delft University of Technology)
5. **Impact of Individual Differences on User Experience with a Real-World Visualization Interface for Public Engagement.**
Lallé, Sébastien (University of British Columbia), Conati, Cristina (University of British Columbia), Carenini, Giuseppe (University of British Columbia)

7. **Using System Dynamics to Model Student Performance in an Intelligent Tutoring System.**
 Sanz, María T. (Universitat de Valencia), Arnau, David (Universitat de Valencia), González-Calero, José A. (Universidad de Castilla-La Mancha), Arevalillo-Herráez, Miguel (Universitat de Valencia)
8. **Modeling the Dynamics of Online News Reading Interests.**
 Epure, Elena V. (Université Paris 1 Panthéon-Sorbonne), Kille, Benjamin (Technische Universität Berlin), Ingvaldsen, Jon E. (Norwegian University of Science and Technology), Deneckere, Rebecca (Université Paris 1 Panthéon-Sorbonne), Salinesi, Camille (Université Paris 1 Panthéon-Sorbonne), Albayrak, Sahin (Technische Universität Berlin)
9. **Learning Inclination to Empathy from Social Media Footprints.**
 Polignano, Marco (University of Bari), Basile, Pierpaolo (University of Bari), Rossiello, Gaetano (University of Bari), de Gemmis, Marco (University of Bari), Semeraro, Giovanni (University of Bari)
10. **Item Contents Good, User Tags Better: Empirical Evaluation of a Food Recommender System.**
 Massimo, David (Free University of Bozen – Bolzano), Elahi, Mehdi (Free University of Bozen – Bolzano), Ge, Mouzhi (Masaryk University), Ricci, Francesco (Free University of Bozen – Bolzano)
11. **The Influence of City Size on Dietary Choices and Food Recommendation.**
 Cheng, Hao (Leibniz Universität Hannover), Rokicki, Markus (L3S Research Center), Herder, Eelco (L3S Research Center)
12. **Evaluation of Learners' Adjustment of Question Difficulty in Adaptive Practice of Facts.**
 Papousek, Jan (Masaryk University), Pelanek, Radek (Masaryk University)
13. **The Adaptation of an Individual's Satisfaction to Group Context: the Role of Ties Strength and Conflicts.**
 Barile, Francesco (University of Naples Federico II), Masthoff, Judith (University of Aberdeen), Rossi, Silvia (University of Naples Federico II)
14. **User Verification on Mobile Devices Using Sequences of Touch Gestures.**
 Ben Kimon, Liron (Ben-Gurion University of the Negev), Mirsky, Yisroel (Ben-Gurion University of the Negev), Rokach, Lior (Ben-Gurion University of the Negev), Shapira, Bracha (Ben-Gurion University of the Negev)
15. **Combining Long-term and Discussion-generated Preferences in Group Recommendations.**
 Nguyen, Thuy N. (Free University of Bozen-Bolzano), Ricci, Francesco (Free University of Bozen-Bolzano)
16. **User Expertise Inference on Twitter: Learning from Multiple Types of User Data.**
 Xu, Yu (Trinity College Dublin), Zhou, Dong (Hunan University of Science and Technology), Lawless, Séamus (Trinity College Dublin)
17. **Measuring Bias in News Websites, Towards a Model for Personalization.**
 Spillane, Brendan (Trinity College Dublin), Lawless, Séamus (Trinity College Dublin), Wade, Vincent (Trinity College Dublin)

18. **A Neural Time Series Forecasting Model for User Interests Prediction On Twitter.**
Zhang, Lemei (Norwegian University of Science and Technology), Liu, Peng (Norwegian University of Science and Technology), Gulla, Jon A. (Norwegian University of Science and Technology)
19. **A Unified Latent Factor Model for Effective Category-Aware Recommendation.**
Sun, Zhu (Nanyang Technological University (NTU), Singapore), Guo, Guibing (Northeastern University), Zhang, Jie (Nanyang Technological University (NTU), Singapore), Xu, Chi (Singapore Institute of Manufacturing Technology)
20. **An Evaluation of Learning-to-Rank Methods for Lurking Behavior Analysis.**
Perna, Diego (DIMES, University of Calabria), Tagarelli, Andrea (DIMES, University of Calabria)
21. **Are Item Attributes a Good Alternative to Context Elicitation in Recommender Systems?**
L'Huillier, Amaury (LORIA - University of Lorraine), Castagnos, Sylvain (LORIA - University of Lorraine), Boyer, Anne (LORIA - University of Lorraine)
22. **Towards Understanding Users' Motivation in a Q&A Social Network Using Social Influence and the Moderation By Culture.**
Adaji, Ifeoma (University of Saskatchewan), Vassileva, Julita (University of Saskatchewan)
23. **A Hybrid Recommendation Framework Exploiting Linked Open Data and Graph-based Features.**
Musto, Cataldo (University of Bari), Semeraro, Giovanni (University of Bari), de Gemmis, Marco (University of Bari), Lops, Pasquale (University of Bari)
24. **Indirect Context Suggestion.**
Zheng, Yong (Illinois Institute of Technology)
25. **A Personalized Global Filter To Predict Retweets.**
Vougioukas, Michail (European Organization for Nuclear Research), Androutsopoulos, Ion (Athens University of Economics and Business), Paliouras, Georgios (National Center for Scientific Research Demokritos)
26. **Harvesting Entity-relation Social Networks from the Web: Potential and Challenges.**
Amal, Saeed (University of Haifa), Kuflik, Tsvi (University of Haifa), Minkov, Einat (University of Haifa)
27. **Recommender Systems as Multistakeholder Environments.**
Abdollahpouri, Himan (DePaul University), Burke, Robin (DePaul University), Mobasher, Bamshad (DePaul University)
28. **User Modeling for the Internet of Things.**
Kummerfeld, Bob (University of Sydney), Kay, Judy (University of Sydney)

WEDNESDAY



Keynote Speaker

Jennifer Golbeck

I'll be Watching You: Policing the Line Between Personalization and Privacy

Keynote (9:00 | Aula Magna)

Chair: Lora Aroyo

Coffee break (10:00)

Session 6 (10:30 | Aula Magna) - Recommender Systems

Chair: Tsvi Kuflik

- 1. A Deep Architecture for Content-based Recommendations Exploiting Recurrent Neural Networks.**
Suglia, Alessandro (University of Bari Aldo Moro), Greco, Claudio (University of Bari Aldo Moro), Musto, Cataldo (University of Bari Aldo Moro), de Gemmis, Marco (University of Bari Aldo Moro), Lops, Pasquale (University of Bari Aldo Moro), Semeraro, Giovanni (University of Bari Aldo Moro)
- 2. Weighted RandomWalk Sampling for Multi-Relational Recommendation.**
Vahedian, Fatemeh (DePaul University), Burke, Robin (DePaul University), Mobasher, Bamshad (DePaul University)
- 3. RouteMe: A Mobile Recommender System for Personalized, Multi-Modal Route Planning.**
Herzog, Daniel (Technical University of Munich), Massoud, Hesham (Technical University of Munich), Wörndl, Wolfgang (Technical University of Munich)
- 4. An analysis on Time- and Session-aware Diversification in Recommender Systems.**
Anelli, Vito W. (Politecnico di Bari), Bellini, Vito (Politecnico di Bari), Di Noia, Tommaso (Politecnico di Bari), La Bruna, Wanda (Politecnico di Bari), Tomeo, Paolo (Politecnico di Bari), Di Sciascio, Eugenio (Politecnico di Bari)

5. Derive item features relevance from past user interactions.

Cella, Leonardo (Politecnico di Milano), Cereda, Stefano (Politecnico di Milano), Quadroni, Massimo (Politecnico di Milano), Cremonesi, Paolo (Politecnico di Milano)

6. Improving Cold Start Recommendation by Mapping Feature-Based Preferences to Item Comparisons.

Kalloori, Saikishore (Free University of Bozen - Bolzano), Ricci, Francesco (Free University of Bozen - Bolzano)

 **Poster discussion for session 6 (12:00 - 12:30)**

Lunch (12:30)

Session 7 (14:00 | Aula Magna) - Intelligent User Interfaces

Chair: Nava Tintarev

1. Probabilistic Perspectives on Collecting Human Uncertainty in Predictive Data Mining.

Jasberg, Kevin (Heinrich-Heine-University Duesseldorf), Sizov, Sergej (Heinrich-Heine-University Duesseldorf)

2. Using Eye Gaze Data and Visual Activities to Infer Human Cognitive Factors: Method and Feasibility Studies.

Raptis, George E. (University of Patras), Katsini, Christina (University of Patras), Belk, Marios (Cognitive UX GmbH & University of Cyprus), Fidas, Christos (University of Patras), Samaras, George (University of Cyprus), Avouris, Nikolaos (University of Patras)

3. Providing Control and Transparency in a Social Recommender System for Academic Conferences.

Tsai, Chun-Hua (University of Pittsburgh), Brusilovsky, Peter (University of Pittsburgh)

4. Towards a Long Term Model for Virtual Reality Exergames.

Yoo, Soojeong (University of Sydney), Heywood, Tristan (University of Sydney), Tang, Lie Ming (University of Sydney), Kummerfeld, Bob (University of Sydney), Kay, Judy (University of Sydney)

 **Poster discussion for session 7 (15:00 - 15:30)**

SOCIAL EVENT

WELCOME DRINK

Monday, July 10th, 18:30

PRIMATE'S PALACE

Address: Primaciálne námestie, Bratislava

The UMAP 2017 conference welcome drink will be held in Bratislava city's representative halls of the Primate's palace. This classical building is one of the major landmarks of Bratislava and bears considerable historical significance. The palace's Hall of Mirrors is the place, where the peace treaty between Napoleonic France and Austrian Empire was signed (followed immediately after the battle of Austerlitz).

The conference participants will be welcomed in the Hall of Mirrors and greeted by Mayor of Bratislava, Mr. Ivo Nesrovnal, who also took the auspices over UMAP 2017 conference.



SOCIAL EVENT

CONFERENCE DINNER

Tuesday, July 11th, 18:30

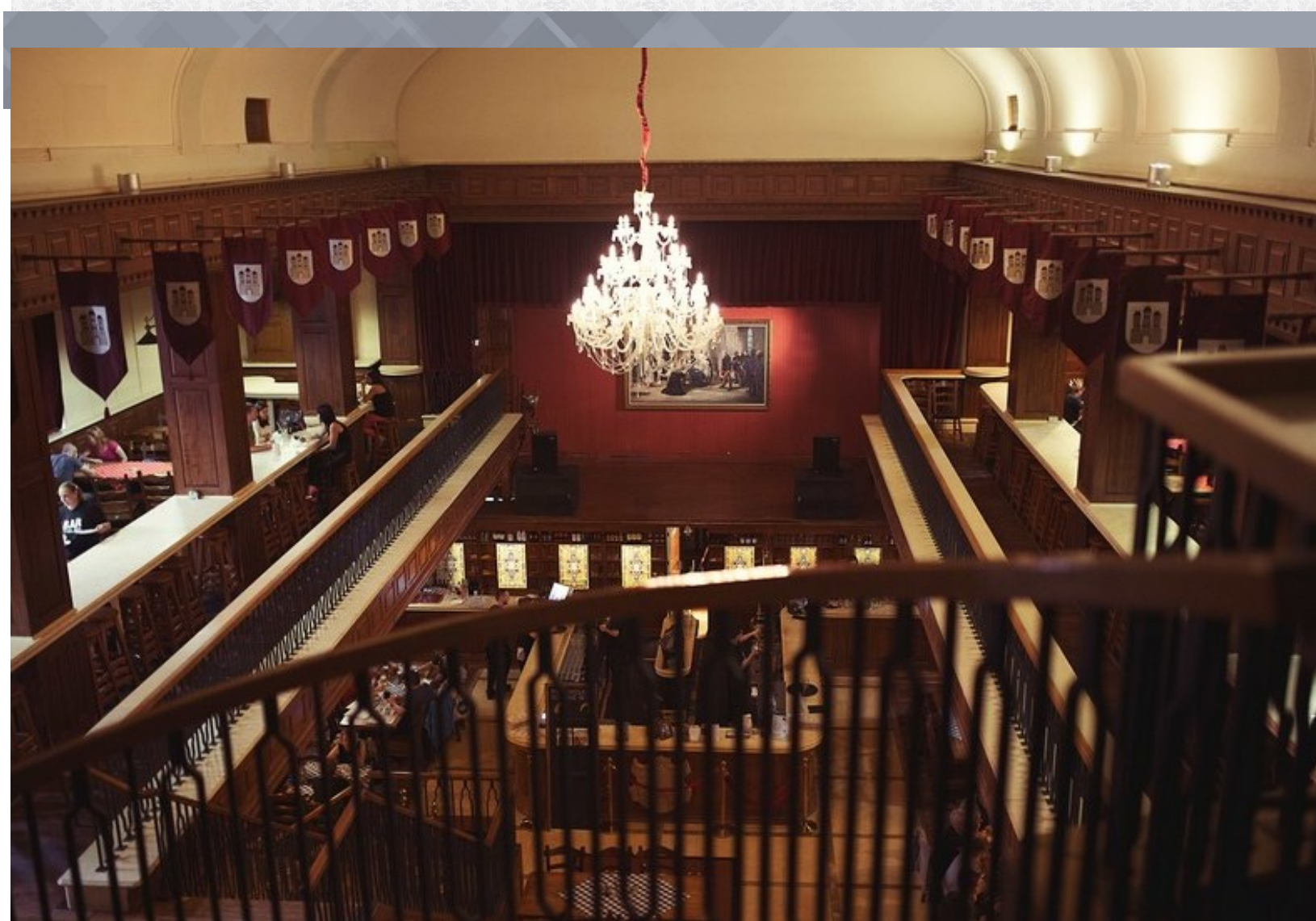
BRATISLAVA FLAGSHIP RESTAURANT

Address: Námestie SNP 8, Bratislava

The conference dinner will be held at Bratislava Flagship Restaurant. The restaurant's cuisine and style sources from traditions of Slovakia (and in particular, Bratislava). At the conference dinner, we will have our university folklore ensemble Technik to sing and dance for us.

The monumental space, in which the restaurant is housed, has originally served as cinema. The building is also facing a plaza named after Slovak National Uprising and has been a witness of national upheavals throughout modern Slovak history.

UMAP will confer the UMAP best paper award and two the James Chen Best Student Paper awards during the conference dinner.



GET READY FOR SOME SINGING :)

As many of participants would know, UMAP has a neat tradition of singing at the conference dinner, where we cheerfully exchange examples of national songs performed by the participants. As organizers, we are already looking forward to this.

Yet, since this edition of UMAP takes place in Slovakia, the conference participants will encounter singing some more. Slovakia is very fond of its folklore. During many occasions, such as conferences, it is not unusual to see short musical or dance performances. UMAP 2017 will adhere to this custom.

At UMAP 2017, we will have the **vocal group SKLO** opening up the main conference. Then, at the conference dinner, we will have our **university folklore ensemble Technik** to sing and dance for us.



THE MAYOR OF BRATISLAVA, MR. IVO NESROVNAL, HAS GRACEFULLY TAKEN THE AUSPICES OVER UMAP 2017.

Mr. Nesrovnal will address the conference participants during the welcome drink event, which will be held in the Hall of Mirrors of the Primate's Palace at Monday, July 10th.





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