

Chairs' Welcome Message

Protocols, Applications and Platforms for Enhanced Living Environments (PAPELE)

Held in conjunction with IFIP/IEEE International Symposium on
Integrated Network Management (IM 2017)

Nuno Garcia, Constandinos Mavromoustakis, Ciprian Dobre, Thomas Zinner

We are delighted to welcome you to the first Workshop on Protocols, Applications and Platforms for Enhanced Living Environments (PAPELE 2017). We are happy to hold this workshop in conjunction with the IFIP/IEEE International Symposium on Integrated Network Management (IM 2017), which is taking place in Lisbon, Portugal, this year.

The importance of protocols, applications and platforms for ambient assisted living systems and enhanced living environments in the community is reflected in the number of submissions we have received. All papers underwent a rigorous review process, with at least 3 reviews per paper. Based on these reviews which were discussed in detail by the workshop chairs, 5 out of 10 full papers were accepted for publication (acceptance rate 50%). The technical program is complemented by 2 short paper presentations and an inspiring keynoteconst Pervasive Health Monitoring given by Ana Fred.

Putting together PAPELE 2017 was a team effort. Thus, we would like to take the opportunity to thank a number of people whose hard work and commitment were essential to the success of this workshop. First and foremost, we would like to thank the authors of submitted papers for their hard work in compiling their submissions. Second, we would also like to express our gratitude to the Technical Program Committee for their effort and solid work in all phases of the workshop preparation. We also thank the ICT COST Action IC1303 "Algorithms, Architectures and Platforms for Enhanced Living Environments" (AAPELE) for supporting the event. Finally yet importantly, we are also thankful for the consuming practical and logistical organizational tasks for the workshop, which were handled by the members of the IM 2017 organizing committee.

We hope that our program will provide you with stimulating ideas, thoughtfully presented solutions, and pursuable experiments. To further enrich the experience, we would like to encourage the workshop attendees to actively participate during the sessions.

The organizers,

Nuno Garcia, Constandinos Mavromoustakis, Ciprian Dobre, Thomas Zinner



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- Florin Pop, University Politehnica of Bucharest, Romania
- Mohammad Al Hajj Hassan, Huawei, Germany
- Panagiotis Trakas, UoC, Spain
- Radu-Ioan Ciobanu, University Politehnica of Bucharest, Romania

Program

9:00 - 10:00 *Welcome & Keynote (Session Chair: Thomas Zinner)*

Pervasive Health Monitoring

Keynote speaker: Ana Luisa N. Fred (Department of Electrical and Computer Engineering, Technical University of Lisbon)

10:00 - 10:30 *AAL Applications (Session Chair: Thomas Zinner)*

Realtime Performance Management of Assisted Living Services in Bluetooth Low Energy Sensor Communication

Jonas Wahslen (School of Technology and Health, KTH, Sweden), Thomas Lind (School of Technology and Health, KTH, Sweden)

10:30 - 11:00 *Coffee Break*

11:00 - 12:30 *IoT Support for Enhanced Living Environments (Session Chair: Thomas Lind)*

Cost-Benefit Analysis Game for Efficient Storage Allocation in Cloud-Centric Internet of Things Systems: A Game Theoretic Perspective

Georgios Skourletopoulos (Department of Computer Science, University of Nicosia, Cyprus), Constandinos X. Mavromoustakis (Department of Computer Science, University of Nicosia, Cyprus), George Mastorakis (Department of Informatics Engineering, Technological Educational Institute of Crete Heraklion, Greece), John N. Sahalos (Department of Physics Aristotle, University of Thessaloniki, Greece), Jordi Mongay Bataalla (National Institute of Telecommunications and Warsaw University of Technology, Poland), Ciprian Dobre (University Politehnica of Bucharest, Romania)

QoS Management Mechanisms for Enhanced Living Environments in IoT

Yassine Banouar (CNRS, LAAS, France), Clovis Ouedraogo (CNRS, LAAS, France), Christophe Chassot (CNRS, LAAS, France), Abdellah Zyane (Cadi Ayyad University, ENSA Safi, Morocco)

An AAL-Oriented Measurement-based Evaluation of Different HTTP-based Data Transport Protocols

Thomas Zinner (University of Würzburg, Germany), Stefan Geissler (University of Würzburg, Germany), Fabian Helmschrott (University of Würzburg, Germany), Susanna Spinsante (Università Politecnica delle Marche, Italy), An Braeken (Vrije Universiteit Brussel, Belgium)

12:30 - 13:30 *Lunch*

13:30 - 14:00 *Video Streaming (Session Chair: Nuno Garcia)*

SVC-based Video Streaming over Highway Vehicular Networks with Base Layer Guarantee

Ruijian An (SOKENDAI (The Graduate University For Advanced Studies), Japan), Zhi Liu (Waseda University, Japan), Yusheng Ji (SOKENDAI (The Graduate University For Advanced Studies), Japan)

14:00 - 14:40 *Short Paper Session (Session Chair: Nuno Garcia)*

Energy Reduction Platform based on Occupant Behavior Pattern Detection in Enhanced Living Environments

Dan Popa (University Politehnica of Bucharest, Romania), Ciprian Dobre (University Politehnica of Bucharest, Romania), Florin Pop (University Politehnica of Bucharest, Romania)

Framework to Monitor Pregnant Women with Highrisk of Premature Labour using WBSN

Hisham Allahem (Faculty of Computer Science, Dalhousie University Halifax, Canada), Srinivas Sampalli (Faculty of Computer Science, Dalhousie University Halifax, Canada)

14:40 - 15:00 Wrap up & Closing