

Workshop on  
Green and Smart Embedded System Technology:  
Infrastructures, Methods and Tools

# GREEN EMBEDDED

April, 12th  
Stockholm

In conjunction with  
**CPSWEEK 2010**

Organizers:

**Alberto Sangiovanni Vincentelli**, U. Berkeley & U. Trento, USA  
**Huascar Espinoza**, ESI-Tecnalia, Spain  
**Roberto Passerone**, University of Trento, Italy  
**Marco Di Natale**, University of St. Ana, Italy  
**José Javier De Las Heras**, ACCIONA, Spain  
**Daniela Cancila**, CEA LIST, France

Organized & Funded by:



Network of Excellence on  
Embedded Systems



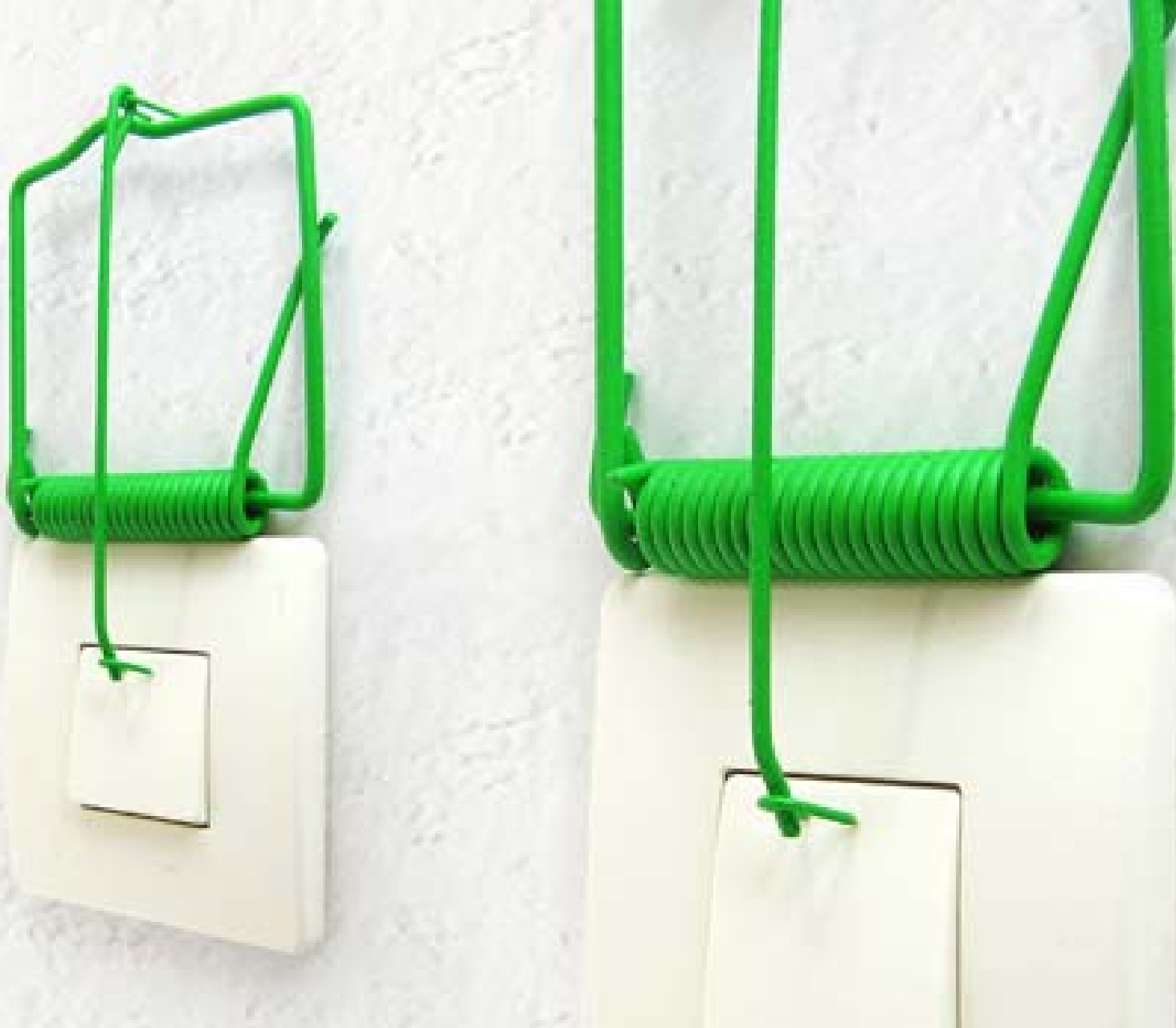
ARTEMIS eDIANA  
Project



FP7 COMBEST  
Project



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## Switch me!

And feel the pain of our planet...

# Landscape

- Workshop roots: eDIANA and COMBEST projects. Related event:
  - ↪ SEEC 2009 (Smart and Efficient Energy Council) also sponsored by Artist NoE (Trento, Oct 2009). Presentations available on SEEC website.
  
- GREEMBED aims at bringing together research and industrial initiatives on embedded systems for energy efficiency, including:
  - ↪ ICT infrastructures for energy management
  - ↪ User interfaces for energy-aware technologies
  - ↪ Smart buildings and smart grid technologies
  - ↪ System and control engineering for energy efficient applications
  
- The workshop program feature a mix of prominent industry/research leaders and high-quality sessions...

# Program (Morning)

## 9:00-11:00 Session 1: ICT for Energy Efficiency in Buildings

- ∞ INVITED SPEAKER: Juan Perez (Labein-Tecnalia, Spain), "*REEB - The European Strategic Research Roadmap to ICT enabled Energy-Efficiency in Building and Construction*"
- ∞ INVITED SPEAKER: Anke Weidlich (SAP, Germany), "*Enterprise Integration for Decentralized Energy Management*"
- ∞ INVITED SPEAKER: Jose-Javier De Las Heras (ACCIONA, Spain) "*EDIANA - Embedded Systems for Energy Efficient Buildings*"

## 11:00-12:15 Session 2: User interfaces for Energy Awareness

- ∞ INVITED SPEAKER: Régis Decorme (CSTB, France), "*IntUBE - Intelligent Use of Buildings' Energy Information – Energy Challenge Concept*"
- ∞ INVITED SPEAKER: Carin Torstensson (Interactive Institute, Sweden), "*BeAware– Boosting Energy Awareness, presentation of the pilot phase on 8 households*"
- ∞ INTERACTIVE SESSION - *Short quiz on energy awareness + brainstorming session with the audience on “user interfaces for energy awareness: content and layout” (chaired by IntUBE and BeAware project partners)*

# Program (Afternoon)

## 13:30-15:15 Session 3: Smart Buildings & Smart Grids

- ↻ INVITED SPEAKER: Hakan Johansson (ABB, Sweden), "*Smart Grid Activities at ABB*"
- ↻ "*Energy Saving Information Platform: ENERsip*", Boris Kantsepolsky (MOTOROLA, Israel) and Rafael Morillo (AMPLIA, Spain)
- ↻ "*Scheduling energy consumption with local renewable micro-generation and dynamic electricity prices*", Onur Derin & Alberto Ferrante (University of Lugano, Switzerland)
- ↻ "*DSM in Spain. Results from GAD Project: Aims, Developments and Ongoing Results*", Laura Moreno (ITE, Spain), Susana Bañares (REE, Spain), Isabel Navalón (Iberdrola, Spain) and Alfredo Quijano (ITE, Spain)

## 15:30-17:15 Session 4: System and Control Engineering for EE in Buildings

- ↻ INVITED SPEAKER: Sylvain Robert (CEA, France), "*The CLIMB project - Implementing the Building Information Model to Optimize Energy Efficiency*" (**Cancelled**)
- ↻ "*Adopting system engineering methodology to Virtual Power System design flow*", Slobodan Lukovic, Igor Kaitovic & Umberto Bondi (University of Lugano, Switzerland)
- ↻ "*Optimised Embedded Distributed Controller for Automated Lighting Systems*", Alie El-Din Mady, Menouer Boubekour & Gregory Provan (University College Cork, Ireland)
- ↻ "*Embedded Controllers for Increasing HVAC Energy Efficiency*", Jiri Vass, Jana Trojanova, Radek Fisera & Jiri Rojicek (Honeywell, Czech Republic)

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# Some Logistics

- ☑ Registration required to attend the workshop
- ☑ Lunch time: 12:15 – 13:30 (included in the Workshop fees).
- ☑ 15-mins Breaks at 10:15 & 15:15
- ☑ Printed Proceedings available
- ☑ Presentations and papers will be available on the website.
- ☑ The best papers will be invited for a Special Issue of IEEE Transactions on Industrial Informatics (TII).

# Acknowledgments

- ☑ We specially thank the **ArtistDesign Network of Excellence** for funding the workshop, for hosting the website, and for publicity.
- ☑ This workshop was also supported by the **EDIANA** (ARTEMIS) and **COMBEST** (FP7) projects



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FP7 COMBEST  
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- ☑ GREENBED Website: [www.artist-embedded.org/artist/-GREENBED-2010-.html](http://www.artist-embedded.org/artist/-GREENBED-2010-.html)





**We hope that you enjoy  
GREEMBED 2010 !**