Massively Distributed Self-Organizing Networks

Monday May 13, 2002

8:30	*Tutorials: Communications Perspective*
8:30–9:00	*Check-In/Light Breakfast (Hosted by IPAM)*
9:00–9:15	*Welcome and Opening Remarks*
9:15–10:30	**Deborah Estrin** (UCLA) *Embedding the Internet: This Century Challenges*
10:30–11:00	*Coffee Break*
11:00–12:00	**Urbashi Mitra** (University of Southern California) *Wireless Changes*
12:00–1:30	*Lunch (on your own)*
1:30	*Tutorials: Systems and Technology Perspectives*
1:30–2:30	**David Culler** (Intel / UC Berkeley) *Technology Enabler*
2:30–3:00	*Coffee Break*
3:00–4:00	**Kristofer Pister** (University of California at Berkeley) *Closing in on Smart Dust*
4:00–5:00	*Group and Round Table Discussion*
5:00–7:00	*Wine/Cheese Reception (Hosted by IPAM)*

Tuesday May 14, 2002

8:30	*Tutorials: Physics and Biology Perspectives*
8:30–9:00	*Continental Breakfast*
9:00–10:00	**Jean Carlson** (UCSB) *Tutorial: Introduction to phase transitions and power laws*
10:00–10:30	*Coffee Break*
10:30–11:30	**Evelyn Fox Keller** (Massachusetts Institute of Technology) *The history and prospects for mathematical biology*
11:30–2:00	*Lunch (on your own)*
2:00	*Tutorials: Information Theoretic Perspectives*
2:00–3:00	**Michelle Effros** (California Institute of Technology) *Information Perspective*
3:00–3:30	*Coffee Break*
3:30–4:30	**Greg Pottie** (UCLA) *Information Perspective*

Wednesday May 15, 2002

8:30	*Tutorials: Physics and Biology Perspectives*
8:30–9:30	*Continental Breakfast*
9:30–10:30	**John Doyle** (California Institute of Technology) *Tutorial: Biological molecules, modules, and networks*
10:30–11:00	*Coffee Break*
11:00–12:00	**John Doyle** (California Institute of Technology) *Tutorial: Emergence and self-organization in physics, biology, and engineering*
12:00–2:00	*Lunch (on your own)*
2:00–3:00	**Reka Albert** (University of Minnesota) *Boolean modeling of genetic regulatory networks*
3:00–3:30	*Coffee Break*
3:30–4:30	**P. R. Kumar** (University of Illinois at Urbana-Champaign) *Ad Hoc Wireless Networks: Protocols, Architecture, and Convergence*

Thursday May 16, 2002

8:30	*Research Talks*
8:30–9:30	*Continental Breakfast*
9:30–10:30	**Bhaskar Krishnamachari** (Cornell University) *Critical Density Thresholds and Complexity in Wireless Networks*
10:30–11:00	*Coffee Break*
11:00–12:00	**Tad Hogg** (Hewlett Packard Laboratories) *Multiagent control of modular self-reconfigurable robots*
12:00–2:00	*Lunch (on your own)*
2:00–3:00	**Andrea Goldsmith** (Stanford University) *Robust multilayer design of wireless networks for massively distributed systems*
3:00–4:00	**P. R. Kumar** (University of Illinois at Urbana-Champaign) *A Network Information Theory for Wireless Communications*
4:00–4:30	*Coffee Break*
4:30–5:30	*TBA*
5:30–7:00	*Conference Dinner BBQ*

Friday May 17, 2002

8:30	*Research Talks*
8:30–9:00	*Continental Breakfast*
9:00–10:00	**Feng Zhao** (Xerox Palo Alto Research Center) *Collaborative Processing in Microsensor Networks*
10:00–10:15	*Coffee Break*
10:15–11:15	**Gaurav Sukhatme** (University of Southern California) *Physics-based Sensing and State Estimation Algorithms for Robotic Sensor*
11:15–12:15	**Kannan Ramchandran** (University of California at Berkeley)
12:15–2:00	*Lunch (on your own)*
2:00–3:00	**Massimo Franceschetti** (California Institute of Technology) *Wireless Networks: from Collective Behavior to Physical Models*
3:00–3:15	*Conclusion*

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