

Bio-Inspired Computing and Communication

First Workshop on Bio-Inspired Design of Networks, BLOWIRE 2007 Cambridge, UK, April 2-5, 2007, Revised Papers

This volume contains the papers from BLOWIRE 2007, the first in a series of workshops on the bio-inspired design of networks, and additional papers contributed from the research area of bio-inspired computing and communication. The workshop took place at the University of Cambridge during April 2–5, 2007 with sponsorship from the US/UK International Technology Alliance in Network and Information Sciences. Its objective was to present, discuss and explore the recent developments in the field of bio-inspired design of networks, with particular regard to wireless networks and the self-organizing properties of biological networks. The workshop was organized by Jon Crowcroft (University of Cambridge), Don Towsley (University of Massachusetts), Dinesh Verma (IBM T. J. Watson Research Center), Vasilis Pappas (IBM T. J. Watson Research Center), Ananthram Swami (ARL), Tom McCutcheon (DSTL) and Pietro Liò (University of Cambridge). The program for BLOWIRE 2007 included 54 speakers covering a diverse range of topics, categorized as follows: 1. Self-organized communication networks in insects 2. Neuronal communications 3. Bio-computing 4. Epidemiology 5. Network theory 6. Wireless and sensorial networks 7. Brain: models of sensorial integration The BLOWIRE workshop focuses on achieving a common ground for knowledge sharing among scientists with expertise in investigating the application domain (e. g., biological, wireless, data communication and transportation networks) and scientists with relevant expertise in the methodology domain (e. g., mathematics and statistical physics of networks).

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