COGNITIVE IT: THE DAWN OF THE AGE OF "MACHINE THINKING"

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Alois Ferscha was with the Department of Applied Computer Science at the University of Vienna at the levels of assistant and associate professor (1986-1999). In 2000 he joined the Johannes Kepler University Linz as full professor where he heads the department of Pervasive Computing, and the Austrian Research Studio on Pervasive Computing Applications.

Currently he is focused on Pervasive and Ubiquitous Computing, Networked Embedded Systems, Embedded Software Systems, Wireless Communication, Multiuser Cooperation, Distributed Interaction and Distributed Interactive Simulation. He has lead international EU funded projects (EU FP7, FET: FOCAS, SAPERE, HC2, PANORAMA, SOCIONICAL, OPPORTUNITY; EU FP6, FET: BeyondTheHorizon, InterLink, CRUISE), was partner of the FET FLAGSHIP initiative FuturICT, but also lead national projects (DISPLAYS, SPECTACLES, PowerSaver, WirelessCampus, MobiLearn, PowerIT, 360Light, Raising Attention, AttentiveMachines, MinIAttention, EyeControl, Attend2IT, IoT4CPS) research, and holds tight cooperation with industrial stakeholders (voestalpine, AMAG, AVL, Primetals, Trumpf, KEBA, Fabasoft, WackerNeuson, Fronius, ENGEL, Fischer Sports, Red Bull Media House, SIEMENS, IBM). SPECTACLES (Autonomous Wearable Display Systems) in cooperation with Silhouette International, INSTAR (Information and Navigation Systems Through Augmented Reality, Siemens München, AG, CT-SE1, BISANTE, EU/IST, Broadband Integrated Satellite Network Traffic Evaluation, Peer-to-Peer Coordination, Siemens München, AG, CT-SE2, Context Framework for Mobile User Applications, Siemens München, AG, CT-SE-2, WebWall, Communication via Public Community Displays, Connect Austria, VRIO, Virtual Reality I/O, with GUP JKU, IBM Upper Austria, MobiLearn, Computer Science Any-Time Any-Where, Mobile Sports Community Services, (SMS Real Time Notification at Vienna City Marathon 1999 – 2019, Berlin Marathon, Hamburg Marathon), etc.

Ferscha has published more than 250 technical papers on topics related to pervasive, ubiquitous, mobile, wearable and distributed computing. He is the CEO and scientific head of the Austrian COMET K1 Competence Centre on Products and Production Systems of the Future, Pro²Future.

He has served on editorial boards of renowned international scientific journals (e.g. Pervasive and Mobile Computing (Elsevier), Transactions of the Society for Computer Simulation), on steering and programme committees of several conferences like PERVASIVE, UMBICOMP, ISWC, WWW, PADS,

DIS-RT, SIGMETRICS, MASCOTS, MSWiM, MobiWac, TOOLS, Euro-Par, PNPM, ICS, etc. to name a few. His activities and recognition in the Pervasive Computing and Wearable Computing research communities is expressed by e.g. his chairing PERVASIVE 2004 (Programme Chair), and ISWC'09 (General Chair).

In the parallel and distributed simulation community he e.g. served as the General Chair of the IEEE/ACM/SCS 11th Workshop on Parallel and Distributed Simulation (PADS'97), as Program Committee chair for the PADS'98, Program Chair for the Seventh International Symposium on Modeling, Analysis and Simulation of Computer and Telecommunication Systems (MASCOTS'99), the 12-th IEEE International Symposium on Distributed Simulation and Real Time Applications (DS-RT 2008), or the 13th International Symposium on Wearable Computers (2009) in Linz, Austria. He has been involved in the program committees of the major related research and FET conferences /e.g. FET11 in Budapest), chairing DOA-SVI 12, and recently the International Conference on the Internet of Things, IoT 2017, in Linz, Austria.

Alois Ferscha is an active consultant to the FET group within the European Commission (Directorate-General for Communications Networks, Content and Technology), and to the Austrian bm-wf and bm-vit. He is Austria's representative in IFIP TC-10 (International Federation for Information Processing, TC10 - Computer Systems Technology).

As an invited researcher or guest professor he was visiting the Dipartimento di Informatica, Universita di Torino, Italy, at the Dipartimento di Informatica, Universita di Genoa, Italy, at the Computer Science Department, University of Maryland at College Park, College Park, Maryland, U.S.A., and at the Department of Computer and Information Sciences, University of Oregon, Eugene, Oregon, U.S.A.

Alois Ferscha is member of the OCG, GI, ACM, IEEE and holds the Heinz-Zemanek Award for distinguished contributions in Computer Science, the Cross Border Award 2009, the "Innovationspreis 2009", the "Innovationspreis" of the "Multimedia Staatspreis 2011", and the "Ö-WGP Zukunftspreis 2018".