

## Brief Biography of Prof. Dr. Kyandoghère KYAMAKYA

Kyandoghère Kyamakya is full professor at the Alpen-Adria University Klagenfurt, where he leads the research group “Transportation Informatics” since October 2005. He is also head of the Institute for Smart System-Technologies and international relations manager for the Faculty of Technical Sciences. He is also professor of Computer Engineering at the University of Kinshasa, Polytechnic Faculty.

His actual research interests cover the following areas: *nonlinear dynamics in transportation systems, intelligent driver assistance systems, intelligent mobility services for persons and goods, and adaptive traffic control systems. In teaching he covers various graduate and undergraduate courses on transportation telematics, intelligent vehicles, logistics, and systems engineering.*

After graduating at the University of Kinshasa in 1990, Dr. Kyamakya has obtained his doctorate in electrical engineering at the “FernUniversität” University of Hagen, Germany, in 1999. Then he joined the Institute for Communications Engineering of the University of Hannover where he conducted postdoctoral research in the fields of mobility management and positioning in cellular wireless networks. In 2002 he was nominated for a ‘junior professor’ position in the same university in the area of positioning and location-based services, before joining his actual chair in 2005 at the University of Klagenfurt.

**LANGUAGES:** French (native), German (fluent), and English (fluent)

### AFFILIATIONS

- Alpen-Adria University Klagenfurt, Institute of Smart Systems Technologies, Klagenfurt, Austria  
URL: <http://www.uni-klu.ac.at/tewi/ict/sst/tig/index.html>
- University of Kinshasa, Polytechnic Faculty, Kinshasa, DR Congo

### GRANTS

During his academic career in Europe (Germany and Austria) Professor Kyamakya has secured and managed in the last 7 years several projects in Germany, DR Congo and in Austria, which are or have been funded either by government agencies or industrial partner companies for a cumulated total volume of several millions Euros. Example of funders (in some cases within a consortium): DFG (Germany); Bmbf (Germany); Bosch (Germany); FFG (Austria), European Commission (Austria), KAPSCH (Austria), Lakesidelabs (Austria), Graben Telecom (DRC), Celtel (DRC), Dambach Werke (Germany), PROGIS (Austria), etc.

### BOOKS, PUBLICATIONS

#### Selected Publications

(an exhaustive list can be found on following web link:

<http://www.uni-klu.ac.at/tewi/ict/sst/tig/6977.htm>

LAMPRECHT, B.; FUCHS S.; KYAMAKYA, K.:  
Computer Vision and Artificial Intelligence On-Road. In: *Journal der Österreichischen Gesellschaft für Artificial Intelligence*, Vol. 25, 2006, pp. 19-23.

LAMPRECHT, B.; RASS, S.; FUCHS, S.; KYAMAKYA, K.:  
Fusion of an Uncalibrated Camera with Velocity Information for Distance Measurement from a Moving Camera on Highways.

In: T. Kaiser, K. Jobmann, K. Kyamakya (Hrsg.): *Proceeding of the 5th workshop on positioning, navigation and communication 2008 (WPNC '08)*. Piscataway (NJ): IEEE, 27. März 2008, pp. 165-172.

LAMPRECHT, B.; RASS S., FUCHS S., KYAMAKYA K.:  
Extrinsic Camera Calibration for an On-board Two-Camera System without overlapping Field of View. In: D. J. Dailey (Hrsg.): *Proceedings of the 2007 IEEE Intelligent Transportation Systems*. Los Alamitos (CA): IEEE, 3. Oktober 2007, pp. 265-270.

LAMPRECHT, B.; FUCHS, S., KYAMAKYA, K.:  
Semantics on-the road. In: *Semantic Technologies Showcase - The Austrian Situation*, FIT-IT project sem'base (Hrsg.): Austrian Computer Society. Vienna, Austria: OCG-Report, 2006, pp 46.

DEEPTI, H.; KYAMAKYA, K.:  
Nonlinear Features Extraction Approaches with Application to Face Recognition over Large Databases. In: *Proceedings of the Second International Workshop on Nonlinear Dynamics and Synchronization – INDS'09*, July 20-21, 2009, Klagenfurt/Austria.

FASIH, A.; CHEDJOU, J.C.; KYAMAKYA, K.:  
Cellular Neural Network Trainer and Template Optimization for Advanced Robot Locomotion, Based on Genetic Algorithm.  
In: *15th International Conference on Mechatronics and Machine Vision in Practice*, 4. December 2008, pp. 317-322.

FASIH, A.; CHEDJOU, J.C.; KYAMAKYA K.:  
Implementation of One Dimensional CNN Array on FPGA – A Design Based on Verilog HDL.  
In: *First International Workshop on Nonlinear Dynamics and Synchronization (INDS '08)*. Aachen: Shaker Verlag, 18. Juli 2008, pp. 31-34.

FASIH A.; CHEDJOU J.C.; KYAMAKYA K.:  
Ultra Fast Object Counting Based-on Cellular Neural Network.  
In: K. Kyamakya (Hrsg.): *First International Workshop on Nonlinear Dynamics and Synchronization (INDS '08)*. Aachen: Shaker Verlag, 18. Juli 2008, pp. 181-183.

FASIH, ALIREZA; KYAMAKYA, KYANDOGHERE; KHAN, UMAIR:  
Genetic Algorithm Based Template Optimization for a Vision System Used for Obstacle Detection.  
In: *Proceedings of ISTET'09 - XV International Symposium on Theoretical Electrical Engineering*, 22 – 24 June 2009, Lübeck, Germany.

FASIH, ALIREZA; KYAMAKYA, KYANDOGHERE; KHAN, UMAIR:  
Benchmarking of the Traditional Genetic Algorithm Method with a Novell Approach and a further novel Scheme for CNN Template Calculation for Image Processing, the "2-Point Crossover (F-Crossover).  
In: *Proceedings of ISTET'09 - XV International Symposium on Theoretical Electrical Engineering*, 22 – 24 June 2009, Lübeck, Germany.