

Curriculum Vitae

PERSONAL INFORMATION

Name: Gergely ORBÁN
Nationality: Hungarian
Address: 5. Marczibányi tér
1022 Budapest, Hungary

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EDUCATION

Budapest University of Technology and Economics, Budapest, Hungary

PhD in Informatics (2009–2014 (expected))

- Department of Measurement and Information Systems
- Topic: Application of complex methods for image based diagnostics
- Cumulated average: 4.96 (scale: 1–5)

MSc degree in Technical Informatics (2009)

- Faculty of Electrical Engineering and Informatics
- Major in integrated intelligent systems
- Cumulated average: 4.99 (scale: 1–5)
- Title of thesis: Investigation of lung nodule detection methods for the analysis of chest radiographs
- Grade of diploma: *excellent with honour*

PROFESSIONAL EXPERIENCE

- Software engineer intern, 11 months, Google Switzerland GmbH., C++ developer [2012]
- ATHENS Programme, 10 days, Telecom ParisTech, topic: Monte Carlo methods, position: student [2010]
- Professional cooperation, 2 years, Innomed Medical Inc., chest X-ray analysis software development, position: researcher, C# developer [2009–]
- Professional cooperation, 2 years (occasional), evosoft Hungary Kft., internal software development (C#) [2007-2009]
- Software engineer intern, 1 month, evosoft Hungary Kft., internal software development (C#, VB) [2007]
- Demonstrator, 4 years, Department of Measurement and Information Systems, BUTE [2006–]

PUBLICATIONS

- G. Orbán, and G. Horváth. Algorithm fusion to improve detection of lung cancer on chest radiographs. In *International Journal of Intelligent Computing and Cybernetics*, Vol. 5 Iss: 1, pages 111-144. Emerald, 2012.
- G. Orbán, and G. Horváth. A Hybrid Lung Nodule Detection Scheme on Chest X-ray Images. In *5th European Conference of the International Federation for Medical and Biological Engineering (EMBEC 2011)*, pages 603-606. Springer, 2012.

	<ul style="list-style-type: none"> • G. Orbán, Á. Horváth, and G. Horváth. Lung Nodule Detection on Rib Eliminated Radiographs. In XII Mediterranean Conference on Medical and Biological Engineering and Computing (MEDICON 2010), pages 363-366. Springer, 2010. • G. Horváth, G. Orbán, Á. Horváth, G. Simkó, B. Pataki, P. Máday, S. Juhász, and Á. Horváth. A CAD System for Screening X-ray Chest Radiography. In World Congress on Medical Physics and Biomedical Engineering (WC 2009), September 7-12, 2009, Munich, Germany, pages 210-213. Springer, 2009. • G. Simkó, G. Orbán, P. Máday, and G. Horváth. Elimination of clavicle shadows to help automatic lung nodule detection on chest radiographs. In 4th European Conference of the International Federation for Medical and Biological Engineering (EMBEC 2009), pages 488-491. Springer, 2009.
HONOURS AND AWARDS	<ul style="list-style-type: none"> • Schnell László publication award of the Schnell László Foundation [BUTE, 2011] • Josef Heim price of the Schnell László Foundation [BUTE, 2010] • Diploma work price of the Scientific Society for Measurement, Automation and Informatics [Hungary, 2009] • Diploma work price of the Pro Progressio Foundation [Hungary, 2009] • Scholarship (award) of the Hungarian Republic [Hungary, 2009] • 2nd place at the National Student Paper Contest, section "Informatics" [Hungary, 2009] • 1st place at the Student Paper Contest, section "Biomedical signal processing" [BUTE, 2008] • National student contests: mathematics - 1st, physics - 3rd, chemistry - 5th [Hungary, 1998–2004]
LANGUAGE SKILLS	<p>English: fluent</p> <ul style="list-style-type: none"> • State Language Examination Certificate – advanced level <p>German: beginner</p> <ul style="list-style-type: none"> • State Language Examination Certificate – basic level
PROGRAMMING LANGUAGES	C#, C++, Java, Matlab, (Prolog, OpenCL)
RESEARCH INTERESTS	<ul style="list-style-type: none"> • image processing • machine learning
OTHER INTERESTS	<ul style="list-style-type: none"> • Radio controlled car racing (best: national championship 3rd) • Sports: climbing, cycling, running, squash