

Márton Ispány Curriculum Vitae

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Faculty of Informatics
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Google Scholar: <https://scholar.google.hu/citations?user=mFbHqDYAAAAJ&hl=hu&oi=ao>

Education

Habilitation, University of Debrecen, 2006

Unstable, nonlinear, and non-stationary stochastic processes, in Hungarian

Ph.D. in Statistics, University of Debrecen (Kossuth Lajos Tudományegyetem), 1997

Discrete time nonlinear stochastic processes on Hilbert spaces, in Hungarian

M.Sc in Mathematics, University of Debrecen (Kossuth Lajos Tudományegyetem), 1989

Bilinear time series, in Hungarian

Fields of interest

Integer valued time series: INAR models, unstable processes and unit root testing, outliers and missing data, seasonality, nonlinear models

Branching processes: limit theorems, asymptotic behavior of CLS and other estimators, critical processes, multitype Galton–Watson processes with immigration

Smart city and urban computing: traffic modeling and analysis, data mining algorithms, sport informatics, software developing methods

Statistical modeling: dimension reduction techniques (PCA), contaminated statistical models, mixture index of fit, EM algorithm, generalized additive models

Applied statistics: mortality models in demography, comparative health research, respiratory diseases and air pollution in environmetrics

Languages

Hungarian (mother tongue)

English (fluent)

Russian (sufficient)

Professional Experience

Head of Department, Department of Information Technology, Faculty of Informatics, University of Debrecen, 2013–

Associate Professor, Department of Information Technology, Faculty of Informatics, University of Debrecen, 2007–

Assistant Professor, Department of Applied Mathematics and Probability Theory, University of Debrecen, 1996–2006

Instructor, Department of Applied Mathematics and Probability Theory, University of Debrecen, 1991–1996

Technical Assistant, Centre of Informatics and Computer Science, University of Debrecen, 1989–1991

Scholarships

Foundation for Hungarian Sciences, K&H scholarship, 1995

Foundation for Hungarian Higher Education and Research, (later Magyary Zoltán scholarship), 1997

Bolyai János Scholarship, Hungarian Academy of Sciences, 1999–2002

Tempus, Chalmers University in Gothenburg, Sweden (T. Norberg), 1996

Department of Mathematics, University of Nijmegen (M.C.A. van Zuijlen), visits in 1999–2006

WHO/HQ, Geneva, Swiss (S. Chatterji, E. Verdes), 2006, 2011

Universidade Federal do Espirito Santo (UFES), Vitoria, Brazil (V. A. Reisen) 2014, 2015, 2016

Awards, Honors

Pollák-Virág Award of Scientific Association for Infocommunications, 2012

Alexits György Award of Hungarian Academy of Sciences, 2004

Farkas Award for Young Statisticians and Applied Mathematicians (Hungarian Mathematical Society), 1999

Membership and boards

Public Body of Hungarian Academy of Sciences

Hungarian Society for Bioinformatics

Hungarian Actuarial Society

Regular refereeing services

Annals of Statistics
Statistics and Probability Letters
Statistical Inference for Stochastic Processes
Metrika
Telecommunication Systems
Infocommunications Journal
European Journal of Control
Annales Computatorica
Acta Universitatis Szegediensis
Publicationes Mathematicae, Debrecen

Grants and Sponsored Programs

OTKA-F032060/2000, 2000-2004
Hungarian National Science Fundation, Nonlinear time series and regression models, project leader

TÁMOP-4.1.2-08/1/A-2009-0046, 2010-2012
East-Hungarian Informatics Curriculum Storehouse, professional manager

TÁMOP 4.1.2.A/1-11/1-2011-0103, 2012-2014
Gyúres Béla Informatics Curriculum Storehouse, project manager

TÁMOP 4.2.2.C/1/KONV-2012-0001, Future Internet Research, Services and Technology, Future Internet for Smart City Applications subproject, 2012-2014, project manager

TÁMOP 4.2.2.C/1/KONV-2012-0001, Future Internet Research, Services and Technology, Launching training and postgraduate courses for IT experts subproject, 2012-2014, project manager

GOP-1.2.1-11-2012-0005, 2012-2014
SziMe3D-3D technological innovation in tourism, education and sport

Teaching

INDK501 Adatbázisrendszerek (Database systems)
INMV360 Adatbányászat (Data mining)
INMV361 Adatbányászati alkalmazások (Data mining applications)
INMV324 Információs rendszerek integrációja (Integration of information systems)
INMV322 Információs rendszerek a gyakorlatban (Information systems in practice)
INMK150 Adat- és rendszermodellek (Data and system models)
INCVP51 Üzleti intelligencia a gyakorlatban (Business intelligence in practice)
INCV151 Statisztika számítógéppel (Statistics with computers)

T_I3603 Komputerstatistika (Computerstatistics)
KT30540 SAS Üzleti Intelligencia (SAS Business intelligence)
KT10240 Többváltozós statisztikai módszerek (Multivariate statistical methods)
INMK130 Alkalmazott statisztika (Applied statistics)
KTA10072 Statisztika II. (Statistics II)
PTML25 Statisztikus tanuló algoritmusok (Statistical learning algorithms)
T_PM1312 Idősoranalízis (Time series analysis)
T_MST1301 Valószínűségszámítás és statisztika (Probability theory and statistics)
T_PM1489 Az adatbányászat újabb módszerei (New methods in data mining)
T_PM1318 Markov láncok alkalmazásai (Markov chain applications)
KT50290 Optimumszámítás és ökonometria (Optimization in econometrics)
T_M2507 Sztohasztikus folyamatok (Stochastic processes)
T_PM1311 Válogatott fejezetek az idősorelemzésből (Selected fields of time series analysis)
Információelmélet (Information theory)
Numerikus analízis (Numerical analysis)
Operációkutatás (Operation research)

Lecture notes

Baran, S., Fazekas, I., Glevitzky, B., Iglói, E., Ispány, M., Kalmár, I., Nagy, M., Tar, L., Verdes, E., *Introduction to mathematical statistics*, KLTE, Debrecen, 1996, in hungarian.
Tan, P.N., Steinbach, M., Kumar, V., *Introduction to Data Mining*, Panem Könyvek, Budapest 2012, hungarian translator and editor
Ispány, M., *Introduction to Data Mining*, slides, 2011, 500 pages (Támop-4.1.2)
Fülöp A., Gonda L., Ispány M., Jeszenszky P., Szathmáry L., *Case Studies in Data Mining*, 2014, 1000 pages (Támop-4.1.2)
Ispány, M., *Computerstatistics*, lecture notes, 1997

Other services

Medical Organizer, Medical insurance modul, student advisor, DEOEC Faculty of Medicine, 2007–2009
Computer Science BSc, student advisor, Faculty of Informatics, University of Debrecen, 2013–
Computer Science MSc, Information systems modul, student advisor, Faculty of Informatics, University of Debrecen
Business Informatics MSc, Business informatics modul, student advisor, Faculty of Informatics, University of Debrecen
Vice Dean (Student Affairs), 1 of September, 2012 – 30 of June, 2013
OTDK: 1 dissertation with honor of jury

PhD advisor: 5 students with 1 succesful defence

Refereeing of PhD thesis: 5 times for ELTE IK, DE IK, BME VIK

Referee for: National Quality Program (TÁMOP 4.2.4.), Eötvös Lóránd and Apáczai Csere János grants, OTKA, GINOP applications at NKFIH

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