



## **Dr. Zoltán András Vattai**

associate professor

Department of Construction Technology & Management (DCT&M)

Budapest University of Technology and Economics (BUTE)

# **Curriculum Vitae**

## **Date of birth**

26.03.1962, Budapest

## **Marital status**

Married, 2 children (Bálint 1987, Alina 1989)

## **Certificates**

- Candidate of Science (PhD), construction sciences, Hungarian Academy of Sciences (HAS), 1999
- dr. Univ., BUTE, 1993
- dipl. engineer-economist in construction economics, BUTE, 1992
- dipl. civil engineer (hydraulics, water engineering), BUTE, 1986

## **Spoken languages**

- Russian, base („A1”), 1987
- English, intermediate („B1”), 1986
- English, advanced („C1”), 2016

## **Professional Career**

- 1999-2008 vice head of department, BUTE DCT&M
- 1999- associate professor, BUTE DCT&M
- 1994-1999 assistant professor, BUTE DCT&M
- 1989-1994 professor's assistant, BUTE DCT&M
- 1986-1989 MTA-TMB (-Scientific Accreditations' Committee) scholar, BUTE DCT&M

## **Education experiences**

- Construction Management – Estimates: resource-, time- and site layout planning (in English and in Hungarian);
- Construction Management – Contracting: pricing, budgeting, procurement systems, engineering economics, network techniques (in English and in Hungarian);
- Managing Construction Projects: resource-, time- and site layout planning, network techniques, construction equipment, health & safety coordination (in English and in Hungarian);
- Managing Civil Engineering Projects: on-site management, legal- and economic environment (in English and in Hungarian);
- Engineering Economics (in Hungarian);
- Construction Economics Analyses (in Hungarian);
- Computer Aided Production Management in Construction Industry (in Hungarian);
- Diploma works (Construction Management), tutor/supervisor (in Hungarian);
- Further collaborating as lecturer at casual external courses in domains of above (in Hungarian)

## **Fields of interest**

- OR/MS – scheduling problems, network problems
- Construction – time estimates, scheduling
- Construction – technologies, resource estimates, equipment
- Software development

## **Professional and public activities**

- Fellow of Hungarian Academy of Sciences (Section of Engineering Sciences), 1999-
- Head of Engineers' Team (lecturers educating on Faculty of Civil Engineering) of Department, vice head of Department, BUTE DCT&M, 1999-2008
- Member of State Examination Board, Branch of Construction Management (within Branch of Structures' Engineering), Faculty of Civil Engineering, BUTE, 1999-2014
- Consultant-representative of Faculty of Architecture in Council of Faculty of Civil Engineering, BUTE, 1999-
- Member of State Examination Board, Courses in English, Faculty of Architecture, BUTE, 2001-2008
- Member of Advisory Board, Foundation for Construction Accomplishment Industry, 2002-2012
- A VIK-VCB-ÉVOSZ-BUTE Flemish-Hungarian Course „Master in Construction Management”, course leader, 2004
- Member of State Examination Board, Branch of Construction Technology & Management (within Branch of Structures' Engineering), Faculty of Civil Engineering, BUTE, 2010-
- Member of Hungarian Chamber of Engineers (reg.: 01-12932), 02.2009-12.2015
- Building Completion-, Construction Technologies, Designer, 02.2009
- Building Completion-, Construction Technologies, Expert Specialist, 02.2009
- Building Completion-, Finishing Works, Expert Specialist, 03.2014
- Construction Project Management, Expert Specialist, 03.2014
- Member of reviewers' team, Journal of Civil Engineering and Architecture, David Publishing Company, CA USA, 2011-

## **Scholarships**

- MTA-TMB Scholarship, Research field: „Applying micro-computers at dynamic operative production management in Construction Industry”; Tutors: G. Jándy, D. Holnapy, I. Ijjas, E. Klafszky; Research Institute: BUTE DCT&M, 1986-1989

## **International experiences, study tours**

- IAESTE 6 weeks technical experiences, Iller Bankesi, Antalya, Turkey, August-September 1985;
- Building Maintenance – Architectural Reconstruction – Historic Building Survey, 4 weeks study tour, Moscow-Tallin-St.Petersburg, June-July 1988 (BUTE);
- Civil utilization of Szentkirályszabadja Military Airport (Hungary), 3 days preliminary study tour, Bursa, Turkey, September 1998 (AiRapid Ltd.);
- Civil utilization of Szentkirályszabadja Military Airport (Hungary), 6 days preliminary study tour, Mont-Real, Canada, march 1999 (AiRapid Ltd.);
- EU-Hungarian Standards' Harmonization in Construction Industry, 6 days preliminary study tour, Helsinki University, Finland, January-February 2000 (BUTE);
- Dry construction – Ready-made houses, 3 days study tour, Stayerland, Austria, April 2005 (BUTE);
- Construction Management – Flemish Experiences, as part of Flemish-Hungarian course „Master in Construction Management”, 5 days study tour, Brussels, Belgium, April-May 2005 (BUTE);

## Research co-operations

- MÁV (Hungarian Railways Company Corp.) - BUTE, Time-, cost- and resource planning of railway reconstruction works to be performed in traffic-free periods, R+D software system development, 1989-1993;
- Budapest, Szentmihályi str., Asia Center, Construction Phase-II, Scheduling concrete-works of a large-scale waterproof monolithic foundation slab, R+D software development, aiding preliminary project planning, UVATERV Corp., 2002;
- Developing knowledge-based document-specification and cost-estimating system to aid preliminary planning and performance of construction projects, R&D (Co. L. Neszvényi), Kutatás-fejlesztési Pályázati és Kutatáshasznosítási Iroda - Hörccsik CAD Consultants Ltd. - BUTE-Innotech Ltd., 2006-2007

## Professional co-operations and projects

- Time and cost estimates of Budapest - Hegyeshalom railway reconstruction works, feasibility study, time- and cost estimate revisions (Co. J. Monori, L. Neszvényi), BUTE-Innotech Ltd. - MÁV-BHPI, 1993–1997;
- Time- and cost estimates of railway reconstruction projects of high preferences, preliminary project planning (Co. J. Monori, L. Neszvényi), BUTE-Innotech Ltd. - MÁV-FBF, 1997–1998;
- Civil utilization of Szentkirályszabadja Military Airport (Hungary), feasibility study, preliminary investment planning and consultation (as staff-member of experts of BUTE), BUTE - AiRapid Ltd., 1997–1998;
- Scheduling works of Hungarian – Slovenian railway link construction, preliminary project planning, controlling-monitoring (Co. J. Monori, L. Neszvényi), BUTE-Innotech Ltd. – MÁV KBPI, 1998-2000;
- Miskolc, Csanyikvölgy, Ampulla and Syringe Manufacturing Plant reconstruction, preliminary project planning and consultation, (Co. J. Monori, L. Neszvényi), BUTE-Innotech Ltd. - CHINOIN Corp., 1998–1999;
- Nagyatád, 48-apartmanned blockhouse construction, quality- and cost account disputes, forensic engineering (Co. J. Monori, L. Neszvényi), BUTE-IMSZB (Committee of Forensic Engineering) – City Court of Marcali, 1999;
- ELTE (Eötvös Lóránd University of Sciences), South Block, scheduling construction works, consultation and co-operation (Co. L. Neszvényi), BUTE-Innotech Ltd. – Magyar Építő Corp., 2000;
- Budapest, Asia Center, construction phase-1, scheduling structural and finishing works, preliminary project planning and consultation, (Co. L. Neszvényi) STRABAG Ltd. 48. Dir., 2001-2002;
- Miskolc, Szinva Center, shopping- and amusement center construction, delay and performance disputes, expertise (Co. L. Neszvényi, S. Sántori), Raiffeisen Bank Corp., 2002;
- Széchenyi Plan II Plus – (highway) main-road system development projects, monitoring, expertise, (as staff-member of experts of BUTE), Óbuda-Újlak Corp., 2002;
- Budapest, Szentmihályi str., Asia Center, construction phase-2, site-layout design, preliminary project planning (Co. L. Neszvényi) STRABAG Ltd. 48. Dir., 2002;
- Budapest, Arany J. str. 10, Youth- and Culture Center construction, delay and performance disputes, expertise (Co. J. Gyulay, L. Neszvényi), BLIBER – KIPSZER Corp. 2002-2003;
- Budapest, City Archives, New Building (Teve str.), scheduling construction works, preliminary project planning and consultation (Co. L. Neszvényi) KÖZÉPÜLETÉPÍTŐ Corp., 2003;
- Construction of a thermal-, amusement- and recreation center and spa, Esztergom, Prímás island, preliminary project planning, expertise and consultation (Co. J. Poles, S. Sántori), Local Authority of Esztergom, 2003;

- Scheduling railway reconstruction projects of high preferences (Zalalövő – Zalaegerszeg), preliminary project planning (Co. L. Neszmélyi), BUTE-Innotech Ltd. – RailConsult Ltd., 2004;
- Budapest, „Deák Palace” construction, delay and performance disputes, expertise (Co. L. Neszmélyi, S. Sántori), IMMOBILIA – Real-Estate Development Corp., 2004-2005;
- Scheduling reconstruction works of Győr Railway Station, preliminary project planning (Co. L. Neszmélyi), BUTE-Innotech Ltd. – RailConsult Ltd., 2004-2005;
- Budapest, Logodi str. 44. blockhouse construction, quality- and account disputes, forensic engineering (Co. L. Neszmélyi), IMSZB (College of Economics, City Court of Budapest), 2005;
- Budapest VIII. Distr. Corvin Alley Project Phase I. master schedule development, preliminary project planning (Co. L. Neszmélyi, J. Poles), Corvin Corp. - PJ Bau Ltd., 2006;
- Budapest XIII. Distr. Narancsliget Housing Park, C and D buildings, master schedule development, preliminary project planning (Co. L. Neszmélyi), WESTCLIFF Ltd., 2007;
- Avenue Gardens Budapest, delivery disputes, consultancy and expertise (Co. L. Neszmélyi), Izabella 62-64 Ltd., 2008;
- Elementary school reconstruction, Budapest XIII. Pannónia str., master schedule, preliminary project planning, Magyar Építő Corp., 2008
- Hungarian Scientific Institute of Neurosurgery, reconstruction, Budapest XIV. Amerikai str. 57., master schedule, preliminary project planning, Magyar Építő Corp., 2009
- Károly Róbert Polytechnics, Gyöngyös – Atkár Tass-puszta buildings renewal and reconstruction, master schedule, preliminary project planning, Magyar Építő Corp., 2009
- Conference- and Music Center, Pécs, Construction Risks Analysis, preliminary project planning (Co. L. Mályusz), Magyar Építő Corp., 2009
- Győr, Széchenyi István University, extension & partial reconstruction, master schedule, preliminary project planning, Magyar Építő Corp., 2009
- Budapest, Corvin Alley Project, Atrium building, delay disputes, expertise and consultation (Co. J. Poles), PEDRANO-FR Ltd., 2009
- Budapest, Újlipótváros Community Center, master schedule, preliminary project planning, Magyar Építő Corp., 2009
- Miskolc, city tramlines electric power system, switch-station construction, cost accounting disputes, forensic engineering (Co. H. Csordás), IMSZB (College of Economics, City Court of Budapest), 2010
- Balatonlelle, Orgona str. 4., 24 apartments block-house construction, cost accounting disputes, forensic engineering (Co. H. Csordás), IMSZB (Fonyód City Court), 2010
- Budapest, Erkel Ferenc Zeneművészeti Egyetem („Music Academy”) reconstruction, schedule of reconstruction works, preliminary project planning (Co. S. Sántori), MARKET Corp, 2010
- Budapest, Parkway Office Building construction, evaluating building failures (as independent experts’ team member, BUTE), Raiffeisen Real-Estate Fund, 2010
- Fejér County Archives reconstruction – Phase II, master schedule, preliminary project planning, MARKET Corp, 2011
- Tatabánya, „A Vértes Agorája”, Community Center reconstruction, master schedule, preliminary project planning, Magyar Építő Corp., 2011
- Miskolc, County Hospital, extension and reconstruction, master schedule, preliminary project planning, Magyar Építő Corp., 2011
- Budapest, Margaret-bridge reconstruction, cost estimates and evaluation of delivery survey methods (as member of BUTE experts’ team), Centre for Budapest Transport, 2011-2012;
- Volkswagen-Slovakia, New Carrosserie Workshop construction, master schedule, preliminary project planning, MARKET Corp., 2011-2012;
- Budapest M4 Subway Line, scheduling finishing works of stations, consultative assistance (Co. L. Neszmélyi), Swietelsky Magyarország Ltd., 2011-

- Budapest, Nagytétény, City Center reconstruction, master schedule, preliminary project planning, Magyar Építő Corp., 2012
- Kecskemét Medical Center reconstruction, network time-model development and schedule update, Magyar Építő Corp., 2012
- Eger, historical city-center reconstruction, master schedule of investment (Co. L. Neszmélyi), Municipal Authority of Eger, 2012
- Székesfehérvár, County Hospital reconstruction, master schedule, preliminary project planning, Magyar Építő Corp., 2012
- Budapest XIII, K4 Office Buildings construction, master schedule, preliminary project planning, MARKET Corp., 2012
- Szombathely, Markusovszky Hospital reconstruction, master schedule, preliminary project planning, MARKET Corp., 2012
- Budapest, Erkel Ferenc Theatre reconstruction, master schedule and risk analysis, preliminary project planning, MARKET Corp., 2012
- Budapest, VIII., Semmelweis Clinics, external campus reconstruction, master schedule, (as part of Korányi Project), preliminary project planning, MARKET Zrt., 2012
- Budapest I., Várkertbazar (Castle-garden Bazaar) reconstruction, master schedule, preliminary project planning, MARKET Corp., 2012
- Budapest I., Várkertbazar (Castle-garden Bazaar) reconstruction, schedule of works and monitoring progression, consultative assistance (Co. L. Neszmélyi), Swietelsky Magyarország Ltd., 2013-2014
- Budapest, old FTC football stadium removal, new FTC football stadium construction, master schedule, site layout design and risk analysis, preliminary project planning (Co. H. Csordás, L. Neszmélyi), MARKET Corp., 2013
- Budapest, National University of Public Service (Ludovika) Central Building reconstruction, master schedule and site layout design, preliminary project planning (Co. H. Csordás, L. Neszmélyi), MARKET Corp., 2013
- Mátraverebély-Szentkút National Place of Worship, touristic reconstruction, master schedule and risk analysis, preliminary project planning, Market Corp., 2013
- Szigetszentmiklós, J. Ádám Elementary School and Conservatoire, master schedule of construction works, preliminary project planning, Market Corp., 2014
- Kaposvár Sugarworks extension, master schedule of construction works, preliminary project planning, Market Corp., 2014
- Takata Project Miskolc, resources of construction works, preliminary project planning, Market Corp., 2014
- Budapest, Kincsem Park, Stands I-II, master schedule of reconstruction works, preliminary project planning, Market Corp., 2014
- Szeged, touristic development of Basilica and its neighborhood, master schedule of reconstruction works, preliminary project planning, Market Corp., 2014
- Pápa, NATO Air-Base reconstruction, master schedule of preliminary demolishing works, preliminary project planning, Market Corp., 2014
- Takata Project Miskolc, network model of construction works, preliminary project planning, Market Corp., 2014
- Budapest, Benczúr str, Pannónia Székház, master schedule of construction works, preliminary project planning, Market Corp., 2014
- Budapest, National University of Public Service, Sport Centre construction, risk analysis and master schedule of resources and of works (Co. L. Neszmélyi), preliminary project planning, Market Corp., 2014

- Budapest, Central European University, Redevelopment Project, master schedule of construction works, preliminary project planning, Market Corp., 2014
- Szolnok, MÁV Stadium reconstruction, master schedule of construction works, preliminary project planning, Market Corp., 2014
- Pápa, SAC-HAW NATO Hangar Complex, master schedule of construction works, preliminary project planning, Market Corp., 2014
- Balatonboglár, National Handball Academy, master schedule of construction works, preliminary project planning, Market Corp., 2015
- Budapest, Corvin 4 Office Building, preliminary time- and resource estimates of construction works (Co. L. Neszmélyi, H. Csordás), Pedrano Construction Hungary Ltd., 2015
- Budapest, M4 metro construction, Etele sqr. – Fővám sqr. section, tunnel boring, deadline- and delay disputes, forensic engineering (Co. S. Sándor), BAMCO, 2015
- 17th FINA World Championship – Budapest (HUN), master schedule of construction works, preliminary project planning, Market Corp., 2015
- Budapest, Museum of Fine Arts, reconstruction of Roman Hall and adjacent areas, master schedule of construction works, preliminary project planning, LAKI Corp., 2015
- Budapest, demolition of Ferenc Puskás Stadium, master schedule (Co. L. Neszmélyi), preliminary project planning, Market Corp., 2015
- Budapest, Moholy-Nagy University of Fine Arts, Campus Development Project – Media House and Studio, master schedule of detailed planning and of construction works, preliminary project planning, Market Corp., 2016
- Miskolc, DVTK Stadium demolition- and construction works and MVSC Stadium reconstruction works, master schedule, preliminary project planning, Market Corp., 2016
- Budapest, Liszt Ferenc International Airport, Terminal 2, Pier B construction works, time- and resource estimates, preliminary project planning, Market Corp., 2016
- Budapest, Pannon Park Project, Biodom, master schedule of construction works, preliminary project planning, Market Corp., 2016
- Budapest, Illovszky („Vasas”) Stadium, schedules of resources of construction works, preliminary project planning, Market Corp., 2017
- Budapest, Moholy-Nagy University of Arts, Creative and Innovative Knowledge-Park Project, project-phase 3, master schedule of construction works, preliminary project planning, Market Corp., 2017
- Budapest, Bozsik („Honvéd”) Stadium, master schedule of construction works, preliminary project planning, Market Corp., 2017
- Demolishing- and Associating Works on Earlier Estates of Michelin Hungária Ltd., Risk Management Plan, preliminary project planning, Market Corp., 2017
- Szeged, Junior Sport Center, master schedule of construction works, preliminary project planning, Market Corp., 2017
- Budapest, Békásmegyér, Market Square Development Project, Risk Management Plan, preliminary project planning, Market Corp., 2017
- Nagyatád, Bárdos Lajos Elementary School and Conservatoire, reconstruction works, delay and settlement disputes, forensic engineering (Co. Sándor Sándor), Kaposvár Court of Justice, 2017
- Budapest, new Ethnographic Museum, master schedule of sub-structural works, preliminary project planning, Market Corp., 2017
- Budapest, Dagály Bathing Establishment, master schedule of external finishes, preliminary project planning, Market Corp., 2018
- Budapest, Kertész Imre Memorial Building, master schedule of reconstruction works, preliminary project planning, Market Corp., 2018

- Budapest, Stefánia 20 – Ligeti villa, master schedule of reconstruction works, preliminary project planning, Market Corp., 2018
- Alba Arena, Székesfehérvár, master schedule of construction works, preliminary project planning, Market Corp., 2018
- Budapest Airport Multi-Storey Car Park, master schedule of construction works, preliminary project planning, Market Corp., 2018
- Budapest, new Ethnographic Museum, master schedule of construction works, preliminary project planning, Market Corp., 2018
- Pécel, ENMECH Hungary, production hall, master schedule of construction works, preliminary project planning, Market Corp., 2018
- Miskolctapolca, Bathing-Establishment, development project, phase II, master schedule of construction works, preliminary project planning, Market Corp., 2018
- Budapest, Metro Line “M3”, master schedule of reconstruction works, project planning-, monitoring and consultation (Co. L. Mályusz), Budapest Közút Corp., 2018-2022
- BUD Airport Paint Hangar, master schedule of construction works, preliminary project planning, Market Corp., 2019
- DPD HUBudapest Project, master schedule of construction works, preliminary project planning, Market Corp., 2019
- Budapest, District II. Clinic, master schedule of construction works, preliminary project planning, Market Corp., 2019
- Szeged, St. Gellért Forum Hotel, master schedule of construction works, preliminary project planning, Market Corp., 2021
- Fót, Nemzeti Filmintézet, Campus development project, master schedule of construction works, preliminary project planning, Market Corp., 2021
- Budapest, Liszt Ferenc Airport, T1 Terminal, reconstruction- and extension project, master schedule of construction works, preliminary project planning, Market Corp., 2022
- Budapest, Citadella project, „Bastion of Freedom”, Phase III and IV, master schedule of construction works, preliminary project planning, Market Corp., 2022, 2023
- Debrecen, CATL, manufacturing- and storehouse buildings, master schedule of construction works, preliminary project planning, Market Corp., 2023
- Mogyoród, HUNGARORING, Main Stand, Depo and Paddock building reconstruction, resource estimates of construction, preliminary project planning, Market Corp., 2023
- Tatabánya, LogisValley Hungary, master schedule of construction works, preliminary project planning, Market Corp., 2023

Budapest, 1<sup>st</sup> September 2023

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Dr. Zoltán András Vattai

# Publications

## Books, Chapters

- [1] Real Estate Appraisal Handbook, Chapter 8-11, Kossuth Publishing, Budapest, 1994, translation from English, The Appraisal Of Real Estate Tenth Edition, 1992 Appraisal Institute, Illinois, USA
- [2] Project Management, Chapters 2,6, BUTE DUETS Office, Budapest, 1996, translation from English, Project Management, 1995 The Open University, Faculty of Mathematics & Computing, UK
- [3] Construction Supervisors' Handbook, Chapter IV/7, "Estimating times and monitoring progression of processes of construction projects" (in Hungarian) pp. 176-186, Terc Ltd., 2001

## Dissertations, Theses

- [4] „Applying Branch & Bound techniques for scheduling (sequencing) problems in Construction Industry”, dr. Univ. theses (in Hungarian), 1993
- [5] „Applying combinatorial models in construction management” C.Sc. (PhD) theses (in Hungarian), 1999

## Articles Published in English in Hungarian Periodicals

- [6] "Sequencing of Tasks with Identical Work Processes for Achieving The Shortest Possible Time of Realization", (Co. T. Török), PERIODICA POLYTECHNICA, ARCHITECTURE Vol. 32. Nos. 3-4, PP. 195-207 (1988), Budapest
- [7] "A Descriptive Proof for Johnson's Algorithm for Solving Two-machine Flow-Shop Problem", PERIODICA POLYTECHNICA SER. CIVIL ENG. VOL. 37, NO 3, PP. 249-260 (1993), Budapest

## Articles Published in English in Proceedings of International Conferences

- [8] "Scheduling Construction Of A Large-Scale Water-Proof Reinforced Concrete Foundation Slab", International Conference On Technology And Management In Construction, Moscenicka Draga, Croatia, 2003
- [9] "Monitoring Progression In Construction - A Case Study At Slovain-Hungarian Railway Line Construction", (Co. L. Neszmélyi), International Conference On Technology And Management In Construction, Moscenicka Draga, Croatia, 2003
- [10] "Floyd-Warshall Again", 7<sup>th</sup> International Conference On Organization, Technology And Management In Construction, Zadar, Croatia, 2006
- [11] "Laying Siege To  $F//C^{\max}$  Flow-Shop Problem – Is 'Random' The Likely Winner?", 8<sup>th</sup> International Conference On Organization, Technology And Management In Construction, Umag, Croatia, 2008
- [12] "Releasing Restraints On Network Scheduling Techniques", People, Buildings And Environment 2010, International Scientific Conference (PBE2010), Krtiny, Czech Republic, 2010
- [13] "6D+ Construction Modelling - Education", 10<sup>th</sup> International Conference On Organization, Technology And Management In Construction, Sibenik, Croatia, 2011
- [14] "Flow-Shop Schedules in Construction", People, Buildings And Environment 2012, International Scientific Conference (PBE2012), Lednice, Czech Republic, 2012
- [15] "Estimating Optimum of Flow-Shop Schedules", 11<sup>th</sup> International Conference On Organization, Technology And Management In Construction, Dubrovnik, Croatia, 2013
- [16] "Early experiences of introducing multi-dimensional construction modelling into curricula of Budapest University Of Technology And Economics", People, Buildings And Environment 2014, International Scientific Conference (PBE2014), Kromeriz, Czech Republic, 2014
- [17] "Floyd-Warshall in Scheduling Open Networks", Creative Construction Conference 2016 (CCC2016), Budapest, Hungary, 2016



[18] "'Critical' Terminology – Apropos of a Conjecture", Creative Construction Conference 2017 (CCC2017), Primosten, Croatia, 2017

### Articles Published in Hungarian in Hungarian Periodicals

[19] "An algorithm for to solve F2/overlap/ $C^{\max}$  problem", Alkalmazott Matematikai Lapok (Papers of Applied Mathematics) 17, PP. 241-257 (1993), Budapest

[20] "Gaming – seriously, Planning construction of a large-scale water-proof reinforced concrete foundation slab", Magyar Építőipar (Hungarian Construction), vol. 2003 1-2, pp. 5-9, ÉTE, 2003

### Articles Published in Hungarian in Proceedings of Hungarian Conferences

[21] "FITT – Planning time-restricted technologies to be performed in traffic-free periods", Conference „Construction Technology – Construction Management”, Section CAM: Computer applications in science of and in practice of construction, Subotica, Yugoslavia, 1997

[22] "Network techniques - an integrated review", International Conference „Construction Industry – Construction Management 2000”, Budapest, Hungary, 2000

### Electronic Publications

[23] Norman Polmar, „THE POLARIS: A REVOLUTIONARY MISSILE SYSTEM AND CONCEPT”, translation from English, 2005,

<http://www.ekt.bme.hu/Nagylete/PERTOlvasmanyok01.pdf>

[24] „Harvey M. Sapolsky, THE POLARIS SYSTEM DEVELOPMENT”, Management Book Review, translation from English, 2006,

<http://www.ekt.bme.hu/Nagylete/PERTOlvasmanyok02.pdf>

[25] Craig B. Smith, P.E. „Program Management B.C.”, translation from English, 2006,

<http://www.ekt.bme.hu/Nagylete/ProgramMenedzsmentIE.pdf>

[26] Jonathan Shaw, „Who Built The Pyramids ?”, translation from English, 2008,

<http://www.ekt.bme.hu/Nagylete/KikEpitettekAPiramisokat.pdf>

[27] "Floyd-Warshall in Scheduling Open Networks" (extended version), Procedia Engineering, Volume 164, 2016, Pages 106-114,

<http://www.sciencedirect.com/science/article/pii/S187770581633939X>

[28] "'Critical' Terminology – Apropos of a Conjecture" (extended version), Procedia Engineering, Volume 196, 2017, Pages 754-762,

<http://www.sciencedirect.com/science/article/pii/S1877705817331247>

[29] "Negative weights in network time model", (Co. L. Mályusz), Frontiers of Engineering Management, 2020, Pages 1-15, ISSN 2095-7513

<https://doi.org/10.1007/s42524-020-0109-1>

<https://link.springer.com/article/10.1007/s42524-020-0109-1>

[30] Levente Mályusz, Miklos Hajdu, Zoltan Vattai, Comparison of different algorithms for time analysis for CPM schedule networks, Automation in Construction, Volume 127, 2021, 103697, ISSN 0926-5805,

<https://doi.org/10.1016/j.autcon.2021.103697>

<https://www.sciencedirect.com/science/article/pii/S0926580521001485>

[31] Levente Mályusz and Zoltán Vattai, Project scheduling algorithms for construction projects with stretchable activities, Creative Construction Conference (CCC 2021), IOP Publishing, IOP Conf. Series: Materials Science and Engineering, 1218 (2022) 012043

<https://doi:10.1088/1757-899X/1218/1/012043>

[32] Zoltán Vattai, Levente Mályusz, Activities or restricted duration in network time models of construction projects, Proceedings of the Creative Construction Conference (2023), 20-23 June 2023, Keszthely, Hungary, 2023, Edited by: Mirosław J. Skibniewski & Miklos Hajdu

<https://doi.org/10.3311/CCC2023-053>

### **Unprinted (oral only) Presentations – not referable publications**

[33] „Applications of graph-technics, all-pairs information”, oral presentation, 23<sup>rd</sup> Hungarian Conference on Operations Research, Pécs, Hungary, 20-22 October 1997

[34] „Time estimates in construction management, scheduling in construction practice”, oral presentation, MTESZ College of Construction Management, Budapest, 1999

[35] „Preparing students of civil engineering and students of architecture for cooperation in process of construction – Increasing expectation against construction management”, invited presentation, ÉTE Scheduled session of Construction Forum (Co. J. Gyulay), Budapest, 2002

[36] „Of Present and Future of Educating Civil Engineers and Architects – in mirror of two-cycled higher education system”, invited presentation, ÉTE Outdoor session, (Co. J. Gyulay, R. Klujber), Budapest, November 2006

### **Furthers – not referable publications**

[37] Revising (vetting) translation of technical issues: „Guide of best practices on the co-ordination of health and safety in the construction sector”, EFMEP-ÉVOSZ, 2005

[38] Revising (vetting) translation of technical issues: „Ultimate Construction – Mega Machines”, National Geographic Channel - Hungary, 2005

[39] Revising (vetting) translation of technical issues: „Ultimate Construction III. Part 13/6: – Pipe Dreams”, National Geographic Channel - Hungary, 2005

Budapest, 1<sup>st</sup> September 2023

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