

## C. V.



### ***Personal Data***

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| <b>Name</b>           | <b>Shady Refat Saad Eldin Aly</b>                         |
| <b>Date of Birth</b>  | <b>August 28<sup>th</sup>, 1973</b>                       |
| <b>Place of Birth</b> | <b>Giza, Egypt</b>  |
| <b>Nationality</b>    | <b>Egyptian</b>   |
| <b>Address</b>        | <b>Riyadh, Refeah suburban, King fahd Cultural Centre</b> |
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| <b>Martial status</b> | <b>Married</b>  |

### ***Education***

#### **Doctorate of Philosophy (Ph.D.) (Systems Engineering and Informatics)**

Czech University of Life Sciences in Prague  
Faculty of Economics & Management  
Department of Information Engineering  
Prague, Czech Republic  
2003-2006

#### **Master of Production Engineering (M.Sc.)**

Faculty of Engineering at Helwan  
Helwan University  
Cairo, Egypt  
1997-2000

#### **Bachelor of Production Engineering (B.Sc.) (Honor degree)**

Helwan University  
Cairo, Egypt  
1992-1997

### ***Teaching Experience***

- 3 years teaching and research experience as a demonstrator at faculty of engineering- Helwan university.
- 3 years teaching and research experience as an assistant lecturer at faculty of engineering- Helwan university.
- 3 years teaching and research experience as an assisstant lecturer at faculty of Economics and Management – Czech Universirty of Life Sciences in Prague, Department of Information Engineering.

- 5 years teaching and research experience as an assistant Professor at Faculty of Engineering at Helwan- Helwan university, Cairo, Egypt.
- 1 years teaching and research experience (in English) as an assistant lecturer at College of Engineering – King Saud University , Riyadh, Kingdom of Saudi Arabia.

***Previous Post***

- Assistant Professor, Mechanical Eng. Department, Faculty of Eng., Helwan Univ. (2006 - 2011).
- Coordinator of the Industrial Liaison Office – Faculty of Engineering – Helwan University (2009-2011)
- Consultant of Riyadh techno-valley for International cooperation , Research and Business Development– Kind Saud University (2011)

***Current position***

Assistant Professor, Industrial Eng. Department, Faculty of Eng., King Saud Univ., Riyadh, Saudi Arabia (2011 - Up-to-date).

***Teaching Interest***

Artificial Intelligence – Software Engineering – Information Systems – Object Oriented Methodology – Production and operation Management – Technology Management – Marketing and Management – Operation Research – Engineering Economics – Strategic Management – Database Systems – Artificial Intelligence Programming Languages – Management Information Systems – Algorithmization – Mathematical Theory of Programs – Decision Support Systems – Software packages and Programming Languages.

***Research Interest***

Artificial Intelligence – knowledge-based systems – Neuro-fuzzy – Genetic Algorithms – Object-Oriented Information Systems – Operations Management Lean/agile Production Systems – Manufacturing Information Systems – Information Systems Development – Technology Management - Combinatorial Search – Decision Support Systems – Supply Chain Management – Group Decision Making.

***Published Papers***

- S. Aly, I. Vrana, Assessing candidate industrial technologies utilizing hierarchical fuzzy decision making systems, International Journal of Industrial and Systems Engineering, Accepted Paper, To appear in IJISE Vol. 5, No. 5, 2010.
- Vrana, I., Aly, S., “Approximation to Optimum Intelligent Decision Support System for Multidimensional Problems Assessment, Accepted by International Journal of Fuzzy Logic and Intelligent Systems, Korea, 2009.
- Shady Aly & Ivan Vrana, “A Conceptual Model for Managerial Ambient Intelligence”, Ambient Intelligence Forum, Hradec Kralove, Czech Republic, Sept., 2009.
- J. Vanicek, I. Vrana, S. Aly, Fuzzy aggregation and averaging for group decision making: A generalization and survey, Knowledge-based

Systems, 22 (2009) 79–84.

- Shady Aly & Ivan Vrana, “An Intelligent Decision Support System for Environmental Impact Assessment of Industrial Projects”, International Congress on Environmental Modeling and Software IEMSs, July, 2008.
- Aly, s. & Vrana I., Evaluating the knowledge, relevance and experience of expert decision makers utilizing the Fuzzy-AHP, Agriculture Economics – Czech Republic, 54, 2008 (11): 529–535
- Shady Aly, “Fuzzy Logic-Based Technology Transfer Model”, 37<sup>th</sup> International Conference in Computers and Industrial Engineering, October, Alexandria, Egypt, 2007.
- Shady Aly & Ivan Vrana; “Multiple parallel fuzzy expert systems utilizing a hierarchical fuzzy model” Agriculture Economics, 53 (2007): 89-93, Prague, Czech Republic. (2007).
- Vrana, Ivan & Aly, Shady; “Evaluating Engineering R&D Projects using Multiple Fuzzy Expert Systems”. Journal of Radio-electronics (Slouby Brady), Czech Republic, 2007.
- Shady Aly & Ivan Vrana, “Evaluating Engineering R&D Projects using Multiple Fuzzy Expert Systems”. Agrarian Perspectives Conf., Czech University of Agriculture, Prague, Czech Republic. September, (2007).
- “Integrating Multiple Fuzzy Expert System under Restricting Requirements”, Agriculture Economics, 52(4), 2006, PP. 187–196, Prague, Czech Republic (2006).
- Shady Aly & Ivan Vrana, "Toward Efficient Modeling of Fuzzy Expert Systems: A Survey ", Agriculture Economics, 52(10), PP. 456–460 Prague, Czech Republic. (2006).
- Shady Aly & Ivan Vrana, “Multiple parallel fuzzy expert systems utilizing a hierarchical fuzzy model”; Agrarian Perspectives Conf., September, Prague, Czech Republic (2006).
- Shady Aly & Ivan Vrana, “Fuzzy Logic Identifier of Short Term Objectives”, Agriculture Economics, Vol. 51, No.1, , Prague, Czech Republic. (2005).
- Shady Aly & Ivan Vrana, “Fuzzy Expert Marketing-Mix Model”, Agriculture Economics, Vol.51, No.2, , Prague, Czech Republic. (2005).
- Shady Aly & Ivan Vrana, “Integrating Multiple Fuzzy Expert System

under Restricting Requirements”; Proceedings of the 5th International Congress, on Information Technology in Agriculture, Food and Environment, Adana, Turkey. (2005).

- Ramadan, M.Z., & Shady R. S. Abou elez “Development of Genetic Algorithm Based on Fuzzy Logic Sets for Solving Facilities Layout Problems.”, Proceedings, 7<sup>th</sup> Cairo University, Cairo, Egypt. (2000).

***Practical  
Research  
experience***

- Participation in a project of developing an intelligent system for the Customs Administration of the Czech Republic (2005-2006).
- Participation in Czech Project of Ambient Intelligence for Managerial Decision Support (AMIMADES), Czech Science Foundation, Czech Republic (2006-2009).
- Participation in IZMAN Czech Project of Developing Intelligent tools for processing knowledge, Czech Republic (2006-2011).
- Participation in Czech Project of Smart Environment at Workplaces (SMEW), Czech Science Foundation, Czech Republic (2009-2011).
- Participation in Project of establishing an industrial liaison office for research and development in engineering sector, EU granted project , external cooperation, S2/O8/18, Egypt (2008-2009).
- Participation in Project of Solarthermic Roof for Water desalination and cooling, EU granted project , external cooperation, Egypt (2009-2010).

***Attended  
Training  
Courses***

- Proposal Writing workshop for European Fund & Grants - British Council in Cairo , 2007.
- FP7 training and Proposal writing, Egyptian Ministry of Higher Education & Scientific Research, Borg El Arab, Egypt, 2007.
- “Mechanical Maintenance” at Gulf of Suez Petroleum Company. (Egypt, 1995)
- “Mechanical Maintenance” at Jordanian Company of Cement. (Jordon, 1993)

***Special Skills***

**Managerial Skills**

- Time Management
- Resource management
- Objective setting and planning
- Presentation & Communication
- Problem solving

**Computer Skills**

- Efficiency in using Windows XP.
- Efficiency in Programming C++.
- Efficiency in using MS-Office 2003.
- Efficiency in using MS-Visio 2003.

- Efficiency in Programming LISP.
- Efficiency in Programming Prolog.

#### **Languages**

- Native speaker of Arabic
- Fluent in English (written and spoken)
- Good degree in French
- Fair degree in German
- Very good in Czech

#### ***References***

- **Prof. Eng. Ivan Vrana**  
*Head of Information Engineering Dept.*  
*Faculty of Economics & Management*  
*Czech University of Life Sciences in Prague*  
*vrana@pef.czu.cz*