

# CURRICULUM VITAE



**RNDr. Ondřej Pavlačka, Ph.D.**

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## EDUCATION:

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- 2004 – 2007**      **Palacký University Olomouc**, Faculty of Science  
Doctoral study program: *Applied mathematics*  
Dissertation thesis: *Fuzzy methods of decision making* (In Czech)
- 1999 – 2004**      **Palacký University Olomouc**, Faculty of Science  
Master study program: *Applied mathematics*  
Field of study: *Mathematics and its applications*  
Diploma thesis: *Normalized fuzzy weights* (In Czech)

## OCCUPATION:

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- 2007 - Present**      **Palacký University Olomouc**, Faculty of Science, Department of  
Mathematical Analysis And Applications of Mathematics  
Position: **Doctor**

## ABROAD STAGES:

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- 1. 9. 2005 – 30. 6. 2006**      **University of Technology in Vienna**,  
Socrates-Erasmus student
- 8. – 14. 5. 2011**      **Sant Feliu de Guíxols, Girona, Spain**,  
Erasmus – mobility of teaching staff

## FIELD OF SCIENCE:

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- Active research in the field of fuzzy sets theory, multiple criteria decision making and decision making under risk.

## LIST OF PUBLICATIONS

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[1] Pavlačka, O. (2012), Note on the lack of equality between fuzzy weighted average and fuzzy convex sum, *Fuzzy Sets and Systems* (in press). ISSN: 0165-0114

- [2] Pavlačka, O. (2011), Modeling uncertain variables of the weighted average operation by fuzzy vectors, *Information Sciences* 181 (22), 4969-4992. ISSN: 0020-0255
- [3] Pavlačka, O., Talašová, J. (2010), Fuzzy vectors as a tool for modeling uncertain multidimensional quantities, *Fuzzy Sets and Systems* 161 (11), 1585-1603. ISSN: 0165-0114
- [4] Pavlačka, O., Talašová, J., Application of Fuzzy Vectors of Normalized Weights in Decision Making Models, in: *Proceedings of the Joint 2009 International Fuzzy Systems Association World Congress and 2009 European Society of Fuzzy Logic and Technology Conference, Lisbon, Portugal, July 20-24, 2009.* (Eds. J. P. Carvalho, D. Dubois, U. Kaymak and J. M. C. Sousa), Lisabon, 2009, 495-500. ISBN 978-989-95079-6-8
- [5] Pavlačka, O., Talašová, J. (2008), Fuzzy Vectors of Normalized Weights and their Application in Decision Making Models. *Aplimat - Journal of Applied Mathematics* 1 (1) 451-462. ISSN 1337-6365
- [6] Pavlačka, O., Talašová, J., Applications of the Fuzzy Weighted Average of Fuzzy Numbers in Decision Making Models, in: *New Dimensions in Fuzzy Logic and Related Technologies. Vol II.* (Eds.: Štěpnička, M., Novák, V., Bodenhofer, U.) *Proceedings of the 5th Conference of the European Society for Fuzzy Logic and Technology EUSFLAT 2007.* Ostravská univerzita, Ostrava, 2007, 455-462. ISBN 978-80-7368-387-0
- [7] Pavlačka, O., Talašová, J., The Fuzzy Weighted Average Operation in Decision Making Models. *Proceedings of the 24th International Conference Mathematical Methods in Economics, Plzeň, 13th - 15th September 2006*, Plzeň, 2006, 419-426. ISBN 80-7043-480-5
- [8] Bebčáková, I., Talašová, J., Pavlačka, O. (2010), Fuzzification of Choquet integral and its application in multiple criteria decision making, *Neural Network World* 1, 125-137. ISSN 1210-0552
- [9] Talašová, J., Pavlačka, O. (2006), Fuzzy probability spaces and their applications in decision making, *Austrian Journal of Statistics* 35 (2&3), 347-356. ISSN: 1026-597X
- [10] Talašová, J., Pavlačka, O., Fuzzy Probability Spaces in Decision-Making under Risk. *Proceedings of the 23rd International Conference Mathematical Methods in Economics (Ed.: Skalská, H.), Hradec Králové, 14th-16th September 2005*, Gaudeamus, Hradec Králové, 2005, 376-380. ISBN 80-7041-535-5
- [11] Talašová, J., Pavlačka, O., Fuzzy Probability Spaces and Their Applications in Decision Matrices. *Proceedings of 8th Czech-Japan Seminar on Data Analysis and Decision Making under Uncertainty (Eds.: Kroupa, T., Vejnarová, J.), Třešť, September 18-21, 2005*, Oeconomica, Praha, 2006, 140-149. ISBN: 80-245-0915-6

## CONTRIBUTIONS IN INTERNATIONAL CONFERENCES

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- Talašová, J., Pavlačka, O.: Fuzzy Probability Spaces in Decision-Making under Risk. *23rd International Conference on Mathematical Methods in Economics*, Hradec Králové, 14. 9. – 16. 9. 2005.
- Talašová, J., Pavlačka, O.: Fuzzy Probability Spaces and Their Applications in Decision Matrices. *8th Czech-Japan Seminar on Data Analysis and Decision Making under Uncertainty*, Třešť, 18. 9. – 21. 9. 2005.
- Pavlačka, O., Talašová, J.: The Fuzzy Weighted Average Operation in Decision Making Models. *International Conference Olomoucian Days of Applied Mathematics - ODAM 2006*, Olomouc, 7. 9. – 8. 9. 2006.

- Pavlačka, O., Talašová, J.: The Fuzzy Weighted Average Operation in Decision Making Models. *24th International Conference on Mathematical Methods in Economics*, Plzeň, 13. 9. – 15. 9. 2006.
- Pavlačka, O., Talašová, J.: Applications of the Fuzzy Weighted Average of Fuzzy Numbers in Decision Making Models. *5th Conference of the European Society for Fuzzy Logic and Technology EUSFLAT 2007*, Ostrava, 10. 9. – 14. 9. 2007.
- Pavlačka, O., Talašová, J.: Fuzzy Vectors of Normalized Weights and their Application in Decision Making Models. *International Conference on Applied Mathematics, Aplimat 2008*, Bratislava, 5. 2. – 8. 2. 2008.
- Pavlačka, O.: Fuzzy vektory pravděpodobností. *International Conference Olomoucian Days of Applied Mathematics - ODAM 2008*, Olomouc, 12. 6. – 13. 6. 2008.
- Bebčáková, I., Pavlačka, O., Talašová, J.: Fuzzifikace Choquetova integrálu. *International Conference Olomoucian Days of Applied Mathematics - ODAM 2008*, Olomouc, 12. 6. – 13. 6. 2008.
- Pavlačka, O., Talašová, J.: Application of Fuzzy Vectors of Normalized Weights in Decision Making Models. *Joint 2009 International Fuzzy Systems Association World Congress and 2009 European Society of Fuzzy Logic and Technology Conference*, Lisabon, 20. 7. – 24. 7. 2009.
- Pavlačka, O.: Fuzzy extension of the weighted average operation and defuzzification of the resulting fuzzy number. *International Conference Olomoucian Days of Applied Mathematics - ODAM 2011*, Olomouc, 26. 1. – 28. 1. 2011.
- Talašová, J., Pavlačka, O.: Compositions and fuzzy compositions in decision-making models. *CoDaWork 2011 - The 4th International Workshop on Compositional Data Analysis*, Sant Feliu de Guíxols, 9. 5. - 13. 5. 2011.

#### **APPLIED RESEARCH SUPPORTED BY PRIVATE INSTITUTIONS**

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- **2010 – 2011:** Working on the project *Application of theoretical approaches for risk evaluation in underwriting insurance contracts in the case of high risks* which was supported by *Insurance education support foundation*.