

CURRICULUM VITAE

Name: Florin Pavel

Date and place of birth: 31.07.1984, Bucharest.

Education and training

2009 - 2012

PhD in Civil Engineering, Domain: Earthquake Engineering and Structural Reliability, Technical University of Civil Engineering Bucharest.

PhD Thesis: "The influence of frequency content and intensity of seismic motions on the nonlinear structural dynamic response".

2008 - 2009

Advanced Studies in Engineering, Domain: Structural Construction Engineering, Faculty of Civil, Industrial and Agricultural Buildings, Technical University of Civil Engineering Bucharest. Grade - 9.55.

2003 - 2008

Engineer, Domain: Civil Engineering Structures (in English language), Faculty of Engineering in Foreign Languages, Technical University of Civil Engineering Bucharest. Grade – 8.51.

Foreign languages

- English – advanced (TOEFL certificate).
- French – intermediate.
- German - beginner.

Work experience

2013 - present

Assistant professor at the Department of Reinforced Concrete Structures, Faculty of Civil, Industrial and Agricultural Buildings, Technical University of Civil Engineering Bucharest.

2012 - present

Research Assistant for the BIGSEES research project, Technical University of Civil Engineering Bucharest.

2012 - 2013

Assistant professor (part-time) at the Department of Reinforced Concrete Structures,

Faculty of Civil, Industrial and Agricultural Buildings, Technical University of Civil Engineering Bucharest.

2007-2009

Junior Designer; Structural Engineer for S.C. Betaxpert S.R.L., Bucharest.

Teaching activity

- Teaching of the Reinforced Concrete Structures project for the IIIrd and IVth years of study, Faculty of Civil, Industrial and Agricultural Buildings.
- Teaching of the Structural Reliability seminar for the IVth year of study, Faculty of Civil, Industrial and Agricultural Buildings.
- Teaching of the Computer Aided Design seminar for the IVth year of study, Faculty of Civil, Industrial and Agricultural Buildings.

Scientific activity

- Scientific research during the PhD studies and within the BIGSEES national research project.
- Participation in 3 international conferences.
- Participation at the Bauhaus Summer School - Model Validation and Simulation, Weimar, Germany (August 2013).
- Reviewer for the journals: *Earthquake Engineering and Engineering Vibration* (4), *Bulletin of the Seismological Society of America* (1) and *Earthquakes and Structures* (1);

Publications:

Handbooks:

1. V c reanu, R., Pavel, F., Aldea, A. (2013). *Handbook for the evaluation of the wind action on buildings according to CR 1-1-4/2012* (in Romanian). Conspress, Bucure ti.

Articles in journals:

1. Pavel, F. (2011). Strength and displacement demands of seismic ground motions. *Mathematical modelling in civil engineering*, Vol. 1-2: 249 - 258.
2. Pavel, F. (2011). Effects of masonry infills on seismic response of RC frames. *Mathematical modelling in civil engineering*, Vol. 4: 198 - 207.
3. Pavel, F. (2012). Scaling of strong ground motions. *Mathematical modelling in civil engineering*, Vol. 3: 47 - 55.
4. Pavel, F. (2012). The influence of the intensity and frequency content parameters of strong ground motions on the response of RC structures (in Romanian). *The Scientific Bulletin of the Technical University of Civil Engineering Bucharest*, Vol. 2: 41 - 47.

5. Pavel, F., Lungu, D. (2013). Correlations between frequency content indicators of strong ground motions and PGV. *Journal of Earthquake Engineering*, 17(4): 543-559.
6. Pavel, F., V c reanu, R., Aldea, A., Arion, C. (2013). Source effects on the spectral characteristics of ground motions recorded in Bucharest area during Vrancea earthquakes of 1986 and 1990. *Journal of Earthquake Engineering*, 17(8): 1192-1211.
7. V c reanu, R., Pavel, F., Aldea, A. (2013). On the selection of GMPEs for Vrancea subcrustal seismic source. *Bulletin of Earthquake Engineering*, 11(6): 1867-1884.
8. Pavel, F., V c reanu, R., Lungu, D. (2014). Bi-normalized response spectra for various frequency content ground motions. *Journal of Earthquake Engineering*, 18(2): 264-289.
9. Pavel, F., V c reanu, R., Arion, C., Neagu, C. (2014). On the variability of strong ground motions recorded from Vrancea earthquakes. *Earthquakes and Structures*, 6(1): 1-18.
10. V c reanu, R., Demetriu, S., Lungu, D., Pavel, F., Arion, C., Iancovici, M., Aldea, A., Neagu, C. (2014). Empirical ground motion model for Vrancea intermediate-depth seismic source. *Earthquakes and Structures*, 6(2): 141-161.
11. Pavel, F., V c reanu, R., Neagu, C., Pricopie, A. (2014). Bi-normalized response spectra and seismic intensity for Bucharest. *Earthquake Engineering and Engineering Vibration*, 13(1): 125-135.
12. V c reanu, R., M rmureanu, G., Pavel, F., Neagu, C., Ortanza, C.O., Aldea, A. (2014). Analysis of soil factor S using strong ground motions from Vrancea subcrustal seismic source. *Romanian Reports in Physics*, 66(3). (in press).

Articles in proceedings of international conferences:

1. Pavel, F., Lungu, D. (2012). Frequency content indicators of strong ground motions. *Proceedings of the 15th World Conference on Earthquake Engineering*, Lisabona, Portugalia. Paper no. 2372.
2. Pavel, F., Aldea, A., V c reanu, R. (2013). Near-field strong ground motion records from Vrancea earthquakes. *Proceedings of the International Conference on Earthquake Engineering SE-50 EEE*, Skopje, Macedonia, Paper no. 190.
3. V c reanu, R., Pavel, F., Lungu, D., Iancovici, M., Demetriu, S., Aldea, A., Arion, C., Neagu, C. (2013). Uniform hazard spectra for cities in Romania. *Proceedings of the International Conference on Earthquake Engineering SE-50 EEE*, Skopje, Macedonia, Paper no. 164.
4. V c reanu, R., Lungu, D., M rmureanu, G., Cioflan, C., Aldea, A., Arion, C., Neagu, C., Demetriu, S., Pavel, F. (2013). Statistics of seismicity for Vrancea subcrustal source. *Proceedings of the International Conference on Earthquake Engineering SE-50 EEE*, Skopje, Macedonia, Paper no. 138.
5. Pricopie, A., Pavel, F. (2013). Rehabilitation of structures using optimal viscous damper placement. *Proceedings of the International Conference on Earthquake Engineering SE-50 EEE*, Skopje, Macedonia, Paper no. 296.
6. Pavel, F., V c reanu, R., Arion, C., Neagu, C. (2013). Analysis of ground motions recorded in Bucharest during recent Vrancea earthquakes. *Vienna Congress on Recent Advances in Earthquake Engineering and Structural Dynamics*, Viena, Austria, Paper no. 180.
7. Pavel, F., V c reanu, R. (2013). Some comments on the variability of strong ground motions from Vrancea earthquakes. *Proceedings of the Bauhaus Summer School Model Validation and Simulation*, Weimar, Germany.

Articles in proceedings of national conferences:

1. Demetriu, S., V c reanu, R., Pavel, F. (2013). Regression models for prediction of earthquake ground motion parameters. *Proceedings of the XIIth session of scientific session of the Department of Mathematics and Computer Sciences of TUCEB*, Bucharest, Romania.

Asist. Prof. Florin Pavel

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