

# CURRICULUM VITAE

## PERSONAL DATA

First name: Gloria Andreia  
Last name: Cosovici  
Nationality: Romanian  
Date and place of birth: December 2<sup>nd</sup>, 1968, Cluj-Napoca, Romania  
Marital status: Married (2 children)  
Current position: PhD student  
Technical University of Cluj-Napoca  
Department of Manufacturing Engineering  
Home address: Aleea Clăbucet nr. 8, ap. 108, 3400 Cluj-Napoca, Romania  
Phone: 0040-64-176248  
E-mail: [cosovici@zeus.east.utcluj.ro](mailto:cosovici@zeus.east.utcluj.ro)  
Office address: Technical University of Cluj-Napoca  
Department of Manufacturing Engineering  
Bd. Muncii nr. 103-105, 3400 Cluj-Napoca, Romania  
Phone: 0040-64-415051 ext. 101  
Fax: 0040-64-415467

## EDUCATION

Since Nov. 2000: PhD student, Department of Manufacturing Engineering, Technical University of Cluj-Napoca; Advisor: Prof.Dr.Eng. Gheorghe ACHIMAS, Dean of the Faculty of Machine Building  
June 1995: Post-graduate course entitled "Financial Assessment of Enterprises" (organized by the Association of the Romanian Experts and Evaluators, Târgu Mureş, Romania)  
1987 – 1993: Master of Science in the field of Materials Science and Engineering, Technical University of Cluj-Napoca, Romania  
1985 – 1987: "Emil Racoviţă" high school, Cluj-Napoca, Romania  
1983 – 1985: "Gh. Bariţiu" high school, Cluj-Napoca, Romania

## RESEARCH INTERESTS

Cold metal forming  
Numerical simulation of forming processes  
Constitutive models for metallic materials  
Computer aided design and manufacturing

## LIST OF PAPERS

1. Banabic D., Achimas Gh., Cosovici G.A., Jurco P., Comsa D.S., Implementation of an orthotropic yield criterion in a computer programme for the numerical simulation of sheet metal forming processes, MTeM 2001, Cluj-Napoca, p.11-15
2. Banabic D., Comsa D.S., Jurco P., Cosovici G.A., An anisotropic yield criterion for sheet metals, AMME Conference, Gliwice, 2001, p 104-108.

3. Comșa D.S., Cosovici G., Jurco P., Banabic D., Simulation of the hydroforming process using a new orthotropic yield criterion, AMME Conference, Gliwice, 2001, p.109-113.
4. Butuc M.C., Barata da Rocha A., Gracio J.J., Ferreira Duarte J., Cosovici G.A., Paraianu L., Jurco P, Comsa D.S., Banabic D., Prediction of forming limit diagrams for AA5XXX aluminium alloy using Barlat'96 and BBC yield criteria, TPR2002 Conference, Iasi, 2002.
5. D. Banabic, D.S.Comsa, P. Jurco, G.A. Cosovici, FLD theoretical model using a new anisotropic yield criterion, Journal of Materials Processing Technology.
6. D.S.Comsa, G.A. Cosovici, P. Jurco, L. Paraianu, D. Banabic, Simulation of the hydroforming process using a new orthotropic yield criterion, Journal of Materials Processing Technology (accepted to be published).
7. Achimaș Gh., Cosovici G.A., Comșa S., Implementarea unui model de material rigid-plastic pentru table metalice în programul de analiză cu elemente finite ABAQUS/Standard. Partea I: Aspecte teoretice, în: “Știință și inginerie” (editor: M. Bejan), Editura AGIR, București, 2002,
8. Achimaș Gh., Cosovici G.A., Comșa S., Implementarea unui model de material rigid-plastic pentru table metalice în programul de analiză cu elemente finite ABAQUS/Standard. Partea a II-a: Rezultate numerice, în: “Știință și inginerie” (editor: M. Bejan), Editura AGIR, București, 2002,
9. Cosovici, G.A., Banabic, D., and Achimas, Gh., Implementation of a Rigid-Plastic Material Model Using a Modern Yield Criterion in the Abaqus/Standard Finite-Element Code. Part I: Theoretical Aspects, AMME Conference, Gliwice, 2002;
10. Cosovici, G.A., Banabic, D., and Achimas, Gh., Implementation of a Rigid-Plastic Material Model for Sheet Metals under Plane-Stress Conditions in The Abaqus/Standard Finite-Element Programme.Part II: Numerical Results, AMME Conference, Gliwice, 2002;
11. D. Banabic, G.A. Cosovici, D.S. Comsa, S. Wagner, K. Siegert, Validation of the anisotropic yield criteria through bulge test, Hydroforming of tubes, extrusions and sheet metals (Editor K. Siegert), MATINFO Verlag, Frankfurt, 2003, p.481-499, ISBN 3-88355-321-2.
12. L. Paraianu, D.S. Comsa, G.A Cosovici, P. Jurco, and D. Banabic, An improvement of the BBC2000 yield criterion, ESAFORM 2003 Conference, Salerno, 2003, p. 215-219, ISBN 887676211-6.
13. G.A.Cosovici, D.S. Comsa, L. Paraianu, P. Jurco, and D. Banabic, Implementation of a rigid-plastic membrane model in the ABAQUS/Standard finite-element code, ESAFORM 2003 Conference, Salerno, 2003, p. 235-239, ISBN 887676211-6.
14. D. Banabic, S.D. Comsa, L. Paraianu, G.A. Cosovici, P. Jurco, Performances of the BBC2003 yield criterion when using data obtained from different mechanical tests, Int Conf. MTeM, Cluj Napoca, 2003, ISBN 973-656-490-8
15. D. Banabic, S.D. Comsa, L. Paraianu, G.A. Cosovici, P. Jurco, Prediction of the yield loci for anisotropic materials using uniaxial and plane-strain tensile tests, Int. Conf. on Manufacturing Science and Education-MSE2003, Sibiu, 2003, p. 11-14, ISBN 973-651-700-4.
16. L. Părăianu , H. Aretz , S. Comșa , G.A. Cosovici , P. Jurco , D. Banabic, Prediction of FLD's using different theoretical models, Int. Conf. AMME2003, 7-10 Decembrie, Gliwice, Polonia.

17. L. Paraianu, H. Aretz, S. Comsa, G.A. Cosovici, P. Jurco, D. Banabic, Prediction of FLD's using different theoretical models, Submitted to Journal of Modelling and Simulation in Materials Science and Engineering, 2004
18. G.A. Cosovici, D. Banabic Implementation of an Elastoplastic Material Model for Sheet Metals in the ABAQUS/Standard Finite Element Program, Submitted to Arabian Journal for Science and Engineering, 2004.
19. Banabic D., Comsa S.D., Cosovici G.A., Wagner S., New Developments in Plastic Anisotropic Behaviour of Aluminium Sheet Metals, Int. Conf. „New Developments in Sheet Metal Forming Technology“, Stuttgart, 2004, p. 429-442.
20. Banabic D., Comsa S.D., Cosovici G.A., Wagner S., Neuere Entwicklungen in der Beschreibung der plastischen Anisotropie von Aluminiumblechwerkstoffen, Internationale Konferenz „Neuere Entwicklungen in der Blechumformung“, Stuttgart, 2004, p.443-458.
21. G.A. Cosovici, D.S. Comsa, D. Banabic, S. Wagner, K. Siegert, Simulation of the hydroforming processes using a new orthotropic yield criterion, in: “Forming the future”, Proc. of the IDDRG 2004 Conf., May 2004, Sindelfingen, p. 334-344.