

Dr.-Ing. Ashraf Armoush



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Personal

From April 2007 till June 2010, I worked as a PhD student at the Embedded Software Laboratory at RWTH Aachen University. My research interest focused on the design patterns for safety-critical embedded systems and the representation of the non-functional requirements.

Education

- 2007–2010: [RWTH Aachen University](#), Aachen/Germany. PhD.
- 2001–2003: [University of Jordan](#), Amman/Jordan. Master in Computer Science.
- 1995–2000: [An-Najah National University](#), Nablus/West Bank. Bachelor in Electrical Engineering/Minor in Computer Engineering.

Publications

[ABK09]

PDFBIB

Armoush, A., Beckschulze, E., and Kowalewski, S., "Safety Assessment of Design Patterns for Safety-Critical Embedded Systems", in *Proc. 35th Euromicro Conference on Software Engineering and Advanced Applications (SEAA 2009)*, 2009, IEEE CS, pp. 523-527.

Safety Assessment of Design Patterns for Safety-Critical Embedded Systems

Bibtex entry :

```
@inproceedings { ABK09,  
  author = { Armoush, Ashraf and Beckschulze, Eva and Kowalewski,  
Stefan },  
  title = { Safety Assessment of Design Patterns for Safety-Critical  
Embedded Systems },  
  booktitle = { 35th Euromicro Conference on Software Engineering and  
Advanced Applications (SEAA 2009) },  
  year = { 2009 },  
  pages = { 523-527 },  
  month = { Aug. },  
  publisher = { IEEE CS },  
  owner = { Ashraf Armoush },  
  timestamp = { 2009.06.12 },  
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[AK09]

[PDFBIB](#)

Armoush, A. and Kowalewski, S., "Safety Recommendations for Safety-Critical Design Patterns", in *Proc. Design of Dependable Critical Systems (DDCS) In the framework of the SAFECOMP2009*, 2009, Universität Heidelberg, pp. 9-16.

Safety Recommendations for Safety-Critical Design Patterns

Bibtex entry :

```
@inproceedings { AK09,  
  author = { Ashraf Armoush and Stefan Kowalewski },  
  title = { Safety Recommendations for Safety-Critical Design  
Patterns },  
  booktitle = { Design of Dependable Critical Systems (DDCS) In the  
framework of the SAFECOMP2009 },  
  publisher = { Universit{"a"}t Heidelberg },  
  year = { 2009 },  
  pages = { 9-16 },  
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  url = {  
http://archiv.ub.uni-heidelberg.de/volltextserver/volltexte/2009/10072/  
pdf/Safety_Recommendations_for_Safety_Critical_Design_Patterns.pdf },  
  timestamp = { 2009.09.16 },  
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```

[ASK09]

[PDFBIB](#)

Armoush, A., Salewski, F., and Kowalewski, S., "Design Pattern Representation for Safety-Critical Embedded Systems", *Journal of Software Engineering and Applications (JSEA)*, vol. 2, iss. 1, pp. 1-12, 2009

Design Pattern Representation for Safety-Critical Embedded Systems

Bibtex entry :

```
@article { ASK09,  
  author = { Armoush, Ashraf and Salewski, Falk and Kowalewski,  
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Systems },  
  journal = { Journal of Software Engineering and Applications (JSEA)  
},  
  year = { 2009 },  
  volume = { 2 },  
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  number = { 1 },  
  month = { April },  
  issn = { 1945-3116 (Print) 1945-3124 (Online) },  
  owner = { armoush },  
  timestamp = { 2009.04.17 },  
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```

[ASK08a]

[PDFBIB](#)

Armoush, A., Salewski, F., and Kowalewski, S., "Effective Pattern Representation for Safety Critical Embedded Systems", in *Proc. 2008 International Conference on Computer Science and Software Engineering*, 2008, vol. 4, IEEE CS, pp. 91-97.

Effective Pattern Representation for Safety Critical Embedded Systems

Bibtex entry :

```
@inproceedings { ASK08a,  
  author = { Armoush, Ashraf and Salewski, Falk and Kowalewski,  
Stefan },  
  title = { Effective Pattern Representation for Safety Critical  
Embedded Systems },  
  booktitle = { 2008 International Conference on Computer Science and  
Software Engineering },  
  year = { 2008 },  
  volume = { 4 },  
  pages = { 91--97 },  
  month = { Dec. },
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publisher = { IEEE CS },
doi = { 10.1109/CSSE.2008.739 },
isbn = { 978-0-7695-3336-0 },
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url = {
http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=4722571 },
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[ASK08b]

[PDFBIB](#)

Armoush, A., Salewski, F., and Kowalewski, S., "Recovery Block with Backup Voting: A New Pattern with Extended Representation for Safety Critical Embedded Systems", in *Proc. 11th International Conference on Information Technology (ICIT 2008)*, 2008, IEEE CS, pp. 232-237.

Recovery Block with Backup Voting: A New Pattern with Extended Representation for Safety Critical Embedded Systems

Bibtex entry :

```
@inproceedings { ASK08b,
  author = { Armoush, Ashraf and Salewski, Falk and Kowalewski,
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Extended Representation for Safety Critical Embedded Systems },
  booktitle = { 11th International Conference on Information
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(ICIT 2008) },
  year = { 2008 },
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  month = { Dec. },
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  doi = { 10.1109/ICIT.2008.60 },
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[ASK08c]

[PDFBIB](#)

Armoush, A., Salewski, F., and Kowalewski, S., "A Hybrid Fault Tolerance Method for Recovery Block with a Weak Acceptance Test", in *Proc. The 5th IEEE/IFIP International Conference on Embedded and Ubiquitous Computing (EUC 2008)*, 2008, vol. 1, IEEE CS, pp. 484-491.

A Hybrid Fault Tolerance Method for Recovery Block with a Weak Acceptance Test

Bibtex entry :

```
@inproceedings { ASK08c,
  author = { Armoush, Ashraf and Salewski, Falk and Kowalewski, Stefan },
  title = { A Hybrid Fault Tolerance Method for Recovery Block with a Weak Acceptance Test },
  booktitle = { The 5th IEEE/IFIP International Conference on Embedded and Ubiquitous Computing (EUC 2008) },
  year = { 2008 },
  volume = { 1 },
  pages = { 484-491 },
  month = { Dec. },
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  doi = { 10.1109/EUC.2008.102 },
  isbn = { 978-0-7695-3492-3 },
  owner = { Ashraf Armoush },
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  url = { http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=4756378 },
}
```

[AS04]

PDFBIB

Armoush, A. and Serhan, S., "Compound Global and Local Two-Level Adaptive Branch Predictor", *Association for the Advancement of Modelling and Simulation Techniques in Enterprises Journal (AMSE-Modeling A)*, vol. 77, iss. 5, pp. 49-60, 2004

Compound Global and Local Two-Level Adaptive Branch Predictor

Bibtex entry :

```
@article { AS04,
  author = { Armoush, Ashraf and Serhan, Sami },
  title = { Compound Global and Local Two-Level Adaptive Branch Predictor },
  journal = { Association for the Advancement of Modelling and Simulation Techniques in Enterprises Journal (AMSE-Modeling A) },
  year = { 2004 },
  volume = { 77 },
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