

### MONTHLY COLUMNS:

ISSUE	COLUMN TITLE	AUTHOR
<b>Issue 1: January</b> Modeling and Simulation	Publisher's: Virtual Reality Can be a Great Value or Merely a Vice BackTalk: Politics in the Red Zone	R. Alder G. Petersen
<b>Issue 2: February</b> Software Measurement	Publisher's: Software Measurement is Inherent to Project Success BackTalk: Feng Shui for Not-Really-Dummies, AKA Engineers	B. Allgood M. Welker
<b>Issue 3: March</b> Process Improvement	Publisher's: Publisher Leaves Process Improvement Legacy BackTalk: How Process People View Life	E. Starrett D. Cook
<b>Issue 4: April</b> The Promise of Web-Based Applications	Publisher's: The Two Sides of the Web We Weave BackTalk: A Tale of Two Developers	T. Stauder G. Petersen
<b>Issue 5: May</b> 2001 Software Odyssey	Publisher's: Start Your Software Odyssey Here BackTalk: Software Odd to See	Lt. Col. G. Palmer G. Petersen
<b>Issue 6: June</b> Software Development Methodologies	Publisher's: Times, They are a Changin' for Software Development BackTalk: Have We Lost Our Focus?	K. Richins D. Cook
<b>Issue 7: July</b> Testing and CM	Publisher's: The Unsung Heroes of Testing and CM BackTalk: The Weakest Geek	E. Starrett G. Petersen
<b>Issue 8: August</b> Software Around the World	Publisher's: Software: An International Tie to be Grateful For BackTalk: Who's Driving the Software World Anyway?	T. Stauder T. Henderson
<b>Issue 9: September</b> Avionics Modernization	Publisher's: Software Community: Ready for the Challenges of Avionics Upgrade? BackTalk: Aircraft, Software, COTS, GOTS, and a 1967 Chevy BelAir	Lt. Col. G. Palmer D. Cook
<b>Issue 10: October</b> Open and Common Software Systems	Publisher's: How Wide Open Should 'Open Systems' Be? BackTalk: GCSS on LAN	Lt. Col. G. Palmer G. Petersen
<b>Issue 11: November</b> Distributed Software Development	Publisher's: Which Distributed Development Concept Did You Have in Mind? BackTalk: There's No Shame In Saying, 'I Don't Know!'	E. Starrett D. Cook
<b>Issue 12: December</b> Software Legacy Systems	Publisher's: Stronger Than Ever BackTalk: The Ronco Pocket Engineer	T. Stauder G. Petersen

### ARTICLES:

THEME	ARTICLE TITLE	AUTHOR(S)	ISSUE	PAGE
<b>ACQUISITION</b>	A Spiral Model as a Tool for Evolutionary Acquisition	Dr. B. Boehm, W. J. Hansen	5	4
<b>AVIONICS MODERNIZATION</b>	The Air Force Develops an Initiative to Manage Change in Avionics Systems	P. Bowers	9	4
	Avionics Modernization and the C-130J Software Factory	R. Conn, S. Traub, S. Chung	9	19
	The Challenges of Software Certification	G. Romanski	9	15
	Customizing the Software Process to Support Avionics Systems Enhancements	Dr. P. Donzelli, R. Marozza	9	10
	Integrated Road Maps Route the Migration to Avionics Open Systems	P. Bowers	9	8
<b>CAREERS</b>	A Smart Way to Begin a Civilian Engineering Career in the U.S. Air Force	T. Stauder	7	19
	The Software Engineer: Skills for Change	Dr. S. Cross, Dr. C. Graettinger	6	22
<b>CONFIGURATION MANAGEMENT</b>	Software Configuration Management: A Discipline with Added Value	T. Butler, F. Turner, E. Sullivan, V. Standley	7	4
<b>CMM® and CMMI<sup>SM</sup></b>	CMM Level 4 Quantitative Analysis and Defect Prevention	A. Florence		20
	Dispelling the Process Myth: Having a Process Doesn't Mean Sacrificing Agility or Creativity	H. Glazer	11	27
	Lessons Learned in Attempting to Achieve Software CMM Level 4	A. Florence	8	29
	Process Capability Data for the Asking	Lt. Col. R. Lang	7	21
<b>DEVELOPMENT METHODOLOGIES</b>	Ada in the 21st Century	B. M. Brosgol	3	20
	Extending UML to Enable the Definition and Design of Real-Time Embedded Systems	A. Moore	6	4
	Extreme Methodologies for an Extreme World	T. Leishman	6	15
	Getting Software Engineering Into Our Guts	L. Bernstein, D. Klappholz	7	25
	Mission-Based Incremental Development of C2 Systems for More Efficient Business Support	I. Ögren	10	26
	Teaching Intelligent Agents: Software Design Methodology	LTC M. Bowman, Dr. A. Lopez Jr., Maj. J. Donlon, Dr. G. Tecuci	6	10
	The Quality of Requirements in Extreme Programming	R. Duncan	6	19
<b>DISTRIBUTED DEVELOPMENT</b>	A Foundation for Coalition Interoperability Using NATO's C3 Technical Architecture	Dr. F. I. Moxely, L. Simon, E. J. Wells	8	4
	Distributed Development: Insights, Challenges, and Solutions	P. E. McMahon	11	4

THEME	ARTICLE TITLE	AUTHOR(S)	ISSUE	PAGE
<b>DISTRIBUTED SOFTWARE</b>	Factors to Consider When Selecting CORBA Implementations	Dr. T. J. Croak	11	17
	Toward Adaptive and Reflective Middleware for Network-Centric Combat Systems	Dr. D. Schmidt, Dr. R. Schantz, M. Masters, Dr. J. Cross, D. Sharp, L. DiPalma	11	10
<b>INFORMATION ASSURANCE</b>	Intrusion Detection: Implementation and Operational Issues	J. McHugh, A. Christie, J. Allen	1	27
	Cyber Warfare: A New Doctrine and Taxonomy	Lt. Col. L. D. Alford Jr.	4	27
<b>LEGACY SYSTEMS</b>	Automated Transformation of Legacy Systems	P. Newcomb, R. Doblar	12	18
	A COTS-Based Replacement Strategy for Aging Avionics Computers	D. G. Haldeman, W. J. Cannon, J. A. Luke	12	14
	The IULS Approach to Software Wrapper Technology for Upgrading Legacy Systems	D. Corman	12	9
	Reengineering: An Affordable Approach for Embedded Software Upgrade	K. Littlejohn, M. V. DelPrincipe, J. D. Preston, Dr. B. A. Calloni	12	4
<b>LESSONS LEARNED</b>	Lessons Learned From Using COTS Software on Space Systems	R. J. Adams, S. Eslinger	6	25
	Managing the Invisible Aspects of High-Performance Teams	RADM P. Moneymaker, Dr. L. Carter	5	29
	Predicting Staff Sizes to Maintain Networks	Dr. L. D. Gowen	11	22
	Streamlining Brings Oracle Big Savings, Better Service	S. R. Perkins	5	19
<b>MEASUREMENT</b>	Applying Function Point Analysis to Requirements Completeness	C. Dekkers, M. Aguiar	2	8
	The Best Measurement Tool Is Your Telephone	D. S. Lucero, F. Hall	3	15
	Evolving Function Points	L. Fischman	2	24
	Measure Size, Complexity of Algorithms Using Function Points	N. Redgate, C. B. Tichenor	2	12
	The Nine-Step Metrics Program	T. K. Perkins	2	16
	Practical Software Measurement, Performance-Based Earned Value	P. Solomon	9	25
	Software Estimation Model Calibration	Dr. R. Jensen	7	13
	The Software Maintainability Index Revisited	K. D. Welker	8	18
	Software Maintainability Metrics Model: An Improvement in the Coleman-Oman Model	A. Liso	8	15
Software Measurement Programs and Industry Leadership	C. Jones	2	4	
<b>MODELING AND SIMULATION</b>	Computers and M&S – Modeling and Simulation 101	Dr. D. A. Cook	1	8
	Evans and Sutherland: A Model in the Simulation Industry	M. Welker	1	4
	Integrating Process Simulation and Reliability Models	I. Rus, J. Collofello	1	15
	Leading, Integrating, and Leveraging M&S for the Warfighter	Col. W. Forrest Crain	1	11
<b>OPEN AND COMMON SYSTEMS</b>	The DII COE: An Enterprise Framework	Dr. G. Frazier	10	15
	The DII COE: Basic Principles and Future Challenges	D. Gardner	10	10
	DII COE for Real Time: Becoming Reality	Lt. Col. L. Robillard, Dr. H. Callison, M. Goo, J. Maurer	10	19
	Joint Technical Architecture: Impact on Department of Defense Programs	J. Kerner	10	4
<b>PROCESS IMPROVEMENT/ BEST PRACTICES</b>	Balancing Discipline and Flexibility With the Spiral Model and MBASE	Dr. B. Boehm, Dr. D. Port	12	23
	Can Australia Improve Its Software Process?	A. James	8	12
	Event-Driven Learning as a Process Improvement Strategy	M. J. Hillelsohn	1	22
	The Next Refinement to Software	K. Thurston	5	16
	Perspectives on the Software Engineering Process Group	P. Kimmerly, Maj. J. Ogren, C.	3	4
	Proposal on Library-Centered Software Process Assessment	T. Komiyama, T. Sunazuka, S. Koyama	8	22
	Raytheon Stands Firm on Benefits of Process Improvement	P. Bowers	3	9
	SPMN Director Identifies 16 Critical Software Practices	M. W. Evans	3	27
	The State of Software Development in India	C. Embar	8	9
	Verification and Validation Implementation at NASA	Dr. L. H. Rosenberg	5	12
<b>PROJECT MANAGEMENT</b>	Does Your Internal Management Meet Expectations?	E. Schragenheim, H. W. Dettmer	4	19
	Project Scheduling According to Dr. Goldratt	T. K. Perkins	1	19
<b>TESTING</b>	How Much Code Inspection is Enough	R. T. McCann	7	9
	Maintaining the Quality of Black-Box Testing	P. J. Schroeder, Dr. B. Korel	5	24
	The Problem with Testing	N. Hines	7	27
<b>WEB-BASED APPLICATIONS</b>	The Ideal Collaborative Environment	P.A. Dargan	4	11
	The Potential of Extensible Markup Language	D. A. Hayes	4	16
	The Vulnerabilities of Developing on the Net	R. A. Martin	4	5