

CARL H. STUCKEemail: cstucke@gsu.edu , cstucke@mindspring.com Internet: <http://www.cis.gsu.edu/~cstucke/>

Professional experienced in providing education and business solutions about and through the appropriate use of information systems incorporating advanced and conventional technologies.

Education

Emory College	B.S. Mathematics	1969
Emory Graduate School of Arts and Sciences	Ph.D. Mathematics	1976

Fellowships and Awards

Stipe Scholar Emory College	1965-66
Emory College Scholarship	1966-69
Emory Graduate Teaching Assistantship	1970-74

PROFESSIONAL EXPERIENCE:

GEORGIA STATE UNIVERSITY, ROBINSON COLLEGE OF BUSINESS,
COMPUTER INFORMATION SYSTEMS DEPARTMENT, ATLANTA, GA

AUGUST, 2001 – PRESENT

ASSOCIATE CHAIR

- Information Security and Privacy
- MBA Information Technology & Systems
- IT Risk Management
- OO Systems Analysis & OO Systems Design

EQUIFAX SECURE, INC., ATLANTA, GA

1997 – JULY, 2001

CHIEF SCIENTIST, EQUIFAX INTERNET SOLUTIONS

2001 – July, 2001

PKI (Public Key Infrastructure: digital certificates) and authentication. Definition of next-generation authentication (including data enhancement and fraud identification).

VICE PRESIDENT, E COMMERCE TECHNOLOGY

1997 – 2000

Solidified (together with Global CTO and Chief Marketing Officer) Equifax's e-commerce strategy, including business case to launch digital certificate and remote consumer authentication business initiative. Drove organizing, budgeting, hiring, and managing development, customization, and support for PKI and authentication including development and fielding of initial production systems. Led Equifax Secure new product R&D unit. Products evaluated include wireless activation, electronic voting, and location-specific services. Evaluated biometric technologies.

EQUIFAX, INC., ATLANTA, GA

1989 – 1997

AVP, CONSUMER AND ELECTRONIC COMMERCE SERVICES

1996 – 1997

- Fielded first Equifax consumer products on the Web and CompuServe
- Organized and led corporate-wide Internet Committee
- Initiated and fostered development of patented consumer ID verification process*
- Developed first generation versions of credit file change notification and on-line dispute
- Integrated resellers into consumer product arena (ADP and Los Angeles Times)

AVP, EMERGING TECHNOLOGIES

1993 – 1996

- Built consumer product prototypes on Interactive TV (Scientific Atlanta) platform
- Negotiated with BellSouth and Cox for inclusion in their ITV trials
- Fielded consumer products on Microsoft Network
- Drove identification of suite of electronic commerce products including digital certificates, remote consumer identity verification, bill presentment and payment, loan brokering, and financial health analysis as potential Equifax products
- Justified and brought up first Equifax Internet infrastructure and site
- Participated in electronic check project of Financial Services Technology Consortium (FSTC)
- Researched moving dial-up access to Internet access (now implemented), desktop video conferencing, competitor strategies and activities
- Coordinated Sales Force Automation system selection
- Department of 10 to 20 people with budgets of \$1-2 million

AVP, R&D

1990 – 1993

- Identified and pursued promising emerging technologies (neural nets, smart cards, object oriented systems, case-based reasoning, fuzzy logic, genetic algorithms)
- Constructed prototype and initial business case for Data QA (an expert system-based solution for handling 1.5 billion incoming records each month: now going into production)
- Established and led a cross departmental advanced development environment panel on tools (ADEPT) promoting common tool usage and application component reuse
- Drove a corporate technology advisor group that reviewed large application designs (producing better systems based on leveraging collective experience and reusable components)

- Constructed an expert system to review incoming public records for completeness, consistency and against historic trends to insure correct reporting
- Facilitated Joint Application Design sessions
- Benchmarked massively parallel computers (ncube, Maspar)
- Provided management support for evaluation, selection, construction, and production fielding of supercomputer- based application using D2 helical-scan tape for storage and retrieval of large data archives (250+GB each, quarterly snapshots)
- Evaluated pattern recognition methods of identifying fraudulent credit record access

DIRECTOR, SOFTWARE R&D**1989 – 1990**

- Led unit in evaluation and implementation of expert systems (including expert system to screen 50 million records per year)
- Established first TCP/IP for mainframe and for LAN

EQUIFAX INSURANCE SERVICES**1986-1989****SENIOR INFORMATION SYSTEMS CONSULTANT (INSURANCE SERVICES)**

- Senior technical consultant providing design, development, optimization, and trouble-shooting for applications (written in C) and operating and file systems (DEC VMS) for nationwide office case handling and for motor vehicle reporting system
- Successfully introduced tools including code analyzers, code management, regression testing, CASE, databases (ADABAS)

DIGITAL EQUIPMENT CORPORATION, ATLANTA, GA**1982-1986****SENIOR SOFTWARE SPECIALIST**

- Designed and managed development of an environment that provided rapid iterative development of commercial applications (VAX/VMS, COBOL, All-In-One).
- Provided functional analysis, design, project management, and development services (COBOL, Fortran, Macro, RMS – file system)

DEKALB COMMUNITY COLLEGE**1981****COMPUTER CONSULTANT**

- Principal in establishing academic computing center (VAX, Berkley UNIX, C, Ingres). Modified operating system and compiler to ease migration. Implemented system for faculty to allocate and control student computing resources.

ATLANTA METROPOLITAN COLLEGE**1974 - 1981****ASSOCIATE PROFESSOR, MATHEMATICS AND COMPUTER SCIENCE**

- Principal in establishing academic computing center (DEC PDP 1134, BASIC, COBOL)
- Early tenure and promotion to Associate Professor
- Organized first University System of Georgia Microcomputer Users Group
- NSF MISIP Grant to build Computer-Assisted Instruction Clearinghouse

SOUTHERN BELL TELEPHONE AND TELEGRAPH**1969 - 1970****SYSTEMS ANALYST**

Initiated redesign and transition of long distance call recording system from paper tape to magnetic tape on RCA Spectra 70 1600 (third generation computer)

PUBLICATIONS**Publications: Refereed Scholarly**

- Johnson, R. and Stucke, C. (2005) Privacy and Information Security: An On-Line Instructional Approach. In *Journal of Informatics Education Research*, (Vol 6, number 2, pp. 45-60).
- Johnson, R. and Stucke, C. (2003 IBER conference). Developing and Delivering the Virtual MBA Course. Received Best Paper and was accepted for subsequent publication in the *International Business & Economics Research Journal*.
- Siponen, M. and Stucke, C. Effective Anti-spam Strategies in Companies: An International Study. Proceedings of HICSS '39.

Publications: Refereed Professional/Practitioner

Johnson, R. and Stucke, C. (2005) Privacy and Information Security: An On-Line Instructional Approach. In *Journal of Informatics Education Research*, (Vol 6, number 2, pp. 45-60).

Publications: Books and Monographs

- Stucke, C., Straub, D. Sainsbury, R. "Business Continuity Planning and the Protection of Informational Assets," in: *Information Security Policies and Practices*, D. Straub, S. Goodman and R. Baskerville (eds.), M.E. Sharpe, Armonk, NY USA, 2006, forthcoming.
- Snow, A, Straub, D., Stucke, C. Baskerville, B. "The Survivability Principle: IT-Enabled Dispersal of Organizational Capital," in: *Enterprise Information Security and Assurance*, M. Warkentin and R.B. Vaughn (eds.), Idea Group Publishing, Hersey, PA, USA, 2006, forthcoming.

Externally-Funded Research Projects

NSF MISIP CAI Clearinghouse (\$50,000) three year grant in late 70s.

Papers Presented at Professional Meetings

- Johnson, R. and Stucke, C. (2003 IBER conference). Developing and Delivering the Virtual MBA Course. Received Best Paper and was accepted for subsequent publication in the International Business & Economics Research Journal.
- Siponen, M. and Stucke, C. Effective Anti-spam Strategies in Companies: An International Study. Proceedings of HICSS '39.
- Stucke, C., Straub, D. Sainsbury, R. "Business Continuity Planning and the Protection of Informational Assets," at InfoSecCD 2005.

OTHER PRESENTATIONS AT CONFERENCES:

- SELECTED TO SPEAK AT RSA 2001 SECURITY CONFERENCE ON INTEGRATION OF IDENTITY VERIFICATION, PKI, AND AUTHORIZATION.
- PANELS ON FUTURE OF SPATIAL DATA USAGE AND OF KNOWLEDGE MANAGEMENT SYSTEMS AT OGETA FORUM

Supervision of Doctoral Dissertations

No doctoral dissertations.

Directed readings:

Several students on topics including Security of Information Systems and E-Policies for the Carter Center, Security and Grid Infrastructures, And Risk Management

Field studies: Facilitated and served as faculty mentor for:

Various students who interned at Home Depot, Georgia Pacific, Martin Lockheed, ADS, MindHarbor, and Alston & Bird

PROFESSIONAL ORGANIZATIONS:

Member of IEEE, ACM, AIS, GTA, SIM (varies over the years)

OTHER ORGANIZATIONS:

- INFORMATION SECURITY AND PRIVACY WORKING GROUPS FOR THE GEORGIA ELECTRONIC COMMERCE ASSOCIATION (GECA)
- BOARD OF ADVISORS FOR OGETA SPATIAL DATA CONSORTIUM

Curriculum & Service Activities

- Assessment coordinator for CIS (undergraduate and graduate)
- CIS undergraduate student advisor
- Member of Undergraduate Program Committee
- CIS web site "master"
- Security & Privacy graduate course designer & instructor
- Network Security graduate course design
- Undergraduate introduction to security and privacy course developer
- Systems analysis course design and instruction
- Research working group participant/leader
- CIS CIO Roundtable facilitator
- Consultant

PAT. NO. Title

6,282,658 System and method for authentication of network users with preprocessing

6,263,447 System and method for authentication of network users