Preliminary Bibliography

on

Technology in Corrections

Prepared for Dianne Carter and Richard Barnhart

September 1991
BAR CODING, AFIS, ROBOTS, AND DNA

“Robotic Room Service - An Overview and Update.”
Kolodzieczak, Ron; Henningsen, Michael

“Automated Fingerprint Identification-Emerging Technology for Corrections.”
Dechman, Gordon

DNA Profiling: For Positive Identification.
1990
5 p.


“Jail Robotics: The Wave of the Future.”
Kolodzieczak, Ron; Plummer, Charles C.

“Prince George’s County Tests Bar Code Technology.”
Cohen, Al

Planning Guide: Correctional Facility Applications for Automatic Guided Vehicles
Rapp, Marcella C.; Henningsen, Michael
1991
66 p. + 1 videocassette
CS: Apogee Robotics (Fort Collins, CO)
The various applications of Automatic Guided Vehicles (AGV’s) in the correctional environment are described. They include: food service, people movers, surveillance operations, commissary & library services, warehousing operations, and vending machine movement. A videotape depicting the Alameda County automatic delivery system is included. Contains copyrighted material.
Main topics addressed: Security Surveillance systems.

“Technology Enhances Property Control Systems.”
Barbour, Gary R.; Huestis, Robert P.
Uses of Bar Code Technology
1990
1 v.
Uses of bar code technology from various states for operating a cashless canteen, managing capital assets, and controlling warehouse goods are described. Not copyrighted. Main topics addressed: Security commissary.

INNOVATIVE COMPUTER APPLICATIONS

Computers In Criminal Justice Administration and Management: Introduction to Emerging Issues and Applications (2nd ed.)
Archambeault, William G.; Archambeault, Betty J.
Anderson Pub. Co. (Cincinnati, OH)
1989
268 p.

The Correctional Service of Canada's New Executive Information System
1991
25 p.
CS: Correctional Service of Canada (Ottawa, Ontario)
A brief description of the Correctional Service of Canada's Executive Information System (EIS) includes a profile of automated systems and EIS software. System features are further described in material provided by the supplier. Not copyrighted. Main topics addressed: Information system corrections, Canada.

Developing a Strategic Support System: Putting Social Science Research Into Practice to Improve Prison Management (Revised)
Saylor, William G.
1989
18 p.
"Prepared for the American Society of Criminology Meetings, November 11, 1988, Session 157." A strategic support system and a management information system are defined in relation to the Bureau of Prisons and compared and contrasted with each other. The implications of implementing this information system for the Bureau of Prisons is also discussed. Not copyrighted. Main topics addressed: Information system prisons management, information systems, Federal Prison System.
Information Systems Long Range Plan
1990
115 p.
CS: Indiana Dept. of Correction. Division of Information Management Services (Indianapolis, IN)
The purpose of this plan is to address the issues surrounding the development and implementation of an automated accountability system that will record information and assist with management decision making activities. The application systems to provide this capability are identified. A preliminary implementation schedule and estimated resource requirements are disclosed. Not copyrighted. Main topics addressed: Information system corrections (Indiana), management information systems, decision making, planning.

Models of the Criminal Justice System: A Review of Existing impact Models
1990
69 p.
CS: Abt Associates (Cambridge, MA)
SP: U.S. Bureau of Justice Statistics (Washington, DC)
In order to prepare for designing and developing a Federal criminal justice model relevant to the President’s “National Drug Control Strategy,” existing computer models of local, state, and Federal criminal justice systems are examined. Modifications that would be necessary to existing models are discussed. New models that would have to be developed to meet the requirements of the “National Drug Control Strategy” are described. Not copyrighted. Main topics addressed: Information management, computers, information system parole prob, drug control laws.

Quality Control for Prisons: The BOP’s Key indicators/Strategic Support System
Saylor, William G. 1989
7 p.
The Key Indicators System, a “comprehensive and unique data management system,” is described. The system contains extensive information on each Bureau of Prisons institution, region, security level, and the Bureau nationally, including information about rated capacity, admissions and discharges, average daily population, inmate demographics and numerous other categories. The system provides “quality control standards” and a means for “determining conformance to policy.” (p.1 -2). Not copyrighted. Main topics addressed: Information system prisons, management information systems, Federal Prison System.
GENERAL TECHNOLOGY

U.S. Government Printing Office (Washington, DC)
1988
CS: U.S. Congress Office of Technology Assessment (Washington, DC)
Areas of new technology that are examined include: Investigation, Identification, and Apprehension; Decisionmaking; Social Sciences and Computers and Correctional Supervision and Treatment. Main topics addressed: Criminal justice system, home detention, computers, management controls, rights of offenders, constitutional legal issues.

“Corrections Technologies Offer Efficiency.”
Jones, Henry A.
1991
3 p.

Emerging Technologies and Community Corrections
1989
123 p.
CS: American Correctional Association (Laurel, MD); National Institute of Corrections (Washington, DC)
SP: National Institute of Corrections (Washington, DC)
CN: NIC-88C04GGY8
Technologies currently used in community corrections are identified, examined, and described in terms of their applications, focusing, where possible, on cost/benefits, efficacy in controlling offenders, and impact on staff, offenders, and agency operations. Issues surrounding emerging technologies are also discussed along with their implications for community corrections in policy, program development, and management practices.
(p.8). Not copyrighted. Main topics addressed: community based corrections, information technology, computers, education.

“High-Security Technology: Are We Using What We Have?”
1990
7 p.
Singletary, Harry K., Jr.
Proceedings, ACA Annual Conferences 1990.
Impact of Technology on Adult Correctional Institutions
Latessa, Edward J.
1988
443 p.
CS: University of Cincinnati (Cincinnati, OH)
SP: National Institute of Corrections (Washington, DC)
CN: NIC-GS-8

The impact of newly developed technological equipment on correctional institutions is assessed by examining published literature, a survey of departments of corrections, a survey of new and renovated institutions, and site visits. Seven areas of technology are focused on: perimeter security, locking systems, internal security, internal surveillance, fire security, communications, and management information systems. Title of Project is “Study of the Impact of Technology in Prisons.” Includes bibliography. Not copyrighted. Main topics addressed: security, information system (corrections), surveillance systems (corrections).


“Forensic Science and Criminal Justice Technology: High-Tech Tools for the 90s.”
1991
5 p.

Proceedings, 1990 Carnahan Conference on Security Technology
De Vore, R. William
1990
53 p.
CS: University of Kentucky. College of Engineering (Lexington, KY)
Automated command control systems, fibre-optic sensors in physical security, integrated electronic security systems, MIS reports to manage personnel, and protective measures against terrorism are among the topics presented. Copyrighted. Main topics addressed: security, management information systems, terrorism.

“The Utilization of Technology in Correctional institutions.”
Travis, Lawrence F. Ill; Latessa, Edward J.; Oldendick, Robert W.
1989
6 p.
OPTICAL SCANNING

Image Processing for the Public Sector
1991
15 p.
A Government Technology special report.

Public Sector Counts on Optical Technology for the 90s
Newcomb, Tod
Government Technology, v.3 n.4, p.1,6,14
1990
6 p.
The government’s involvement in optical technology for managing information in the 90s is discussed. Copyrighted. Main topics addressed: Information technology.

“Records Management in the 1990s.”
Arkenau, Daniel L
FBI Law Enforcement Bulletin, Volume 59, No. 6 (June 1990).

Report on Optical Scanning Data Entry for the Florida Department of Corrections, Seventh Judicial Circuit
1987
CS: R.J. Kelly and Associates (Tallahassee, FL);
Florida Dept. of Corrections (Tallahassee, FL)
SP: National Institute of Corrections (Washington, DC)
CN: NIC-GR-9
Title of project: Feasibility Study for the Utilization of Optical Scanning Devices in Probation/Parole.

TRAINING TECHNOLOGY

Communications Technologies in Adult, Career, and Vocational Education
Kerka, Sandra
ERIC Digest, n. 81
1989
2 p.
CS: ERIC Clearinghouse on Adult, Career, and Vocational Education (Columbus, OH);
Ohio State University. Center on Education and Training for Employment (Columbus, OH)
SP: U.S. Dept. of Education. Office of Educational Research and Improvement (Washington, DC). Types and uses of communications technologies (CT) and their instructional effectiveness are discussed. Issues in the use of CT for adult, career, and vocational educators are reviewed. Not copyrighted. Main topics addressed: Education, information technology.
Computerized Interactive Video Training Program
1989
10 p.
CS: Florida Dept. of Corrections. Bureau of Staff Development (Tallahassee, FL)
This brief description offers information on the philosophy of the program, hardware configuration, courseware, and locations within Florida of Computerized Interactive Video systems. Not copyrighted. Main topics addressed: Training technology, computers, Florida, training curricula-general.

Directory of Distance Education Through Telecommunications: A Directory of NUCEA Institutions: Utilizing Telecommunications in Distance Education
Willis, Sue; Bridwell, Susan E.
1989
137 p.

Interactive Video In Vocational Education
Kerka, Sandra
ERIC Digest, n. 51
1989
2 p.
CS: ERIC Clearinghouse on Adult, Career, and Vocational Education (Columbus, OH); National Center for Research in Vocational Education (Columbus, OH)
SP: U.S. Dept. of Education. Office of Educational Research and Improvement (Washington, DC). Delivering individualized instruction, types of video technology, five phases of interactive video design, producing interactive video materials, and using interactive video in instruction are topics addressed in this overview. Not copyrighted.

HIGH TECH COMMUNICATION SYSTEMS

Arraignments Via Two-Way Interactive Audio and Video Links
1990
1 p.
CS: US West Communications (Portland, OR); Multnomah County Sheriff's Office (Portland, OR)
A brief description is provided on the two-way interactive audio and video links used to conduct arraignments in Portland, Oregon, while the prisoner remains at a Correctional institute 45 miles away. Not copyrighted. Main topics addressed: Jail relationship, Oregon, courts.
“A Systems Management Approach to Mobile Data Terminals.”
Smith, Les
1988
3 p.
The Police Chief, Volume LV, No. 5 (May 1988).

Jail Technology Symposium: Safety and Identification Systems, Panel Discussion.
Burns, James W.
198-?
The pros and cons of different types of body alarm systems are discussed, including fixed location devices, radio frequency devices, infrared systems, and ultrasonic systems.

**COUNTING**

Prisoner Inventory Control System
1989?
1 p.
CS: Prince George’s County Government. Dept. of Corrections (Upper Marlboro, MD)
The three main components and desired uses of the Bar Code System are discussed. This system utilizes encoded wrist bands for inmate tracking and headcounts. Not copyrighted. Main topics addressed: Surveillance systems, Maryland.

“Wrist Watch.”
Warren Rohn; Ostroski, Trish
1991

**HAIR ANALYSIS**

Hair Analysis for the Detection of Drug Use In Pretrial, Probation, and Parole Populations.
Baer, James D.; Baumgartner, Werner A.; Hill, Virginia A.; Blahd, William H.
1991
8 p.
HIGH-TECH SECURITY

Contraband Control and the Use of X-rays In the Prison Environment
Sexton, Peter S.
Pacific Law Journal; V.16, 409-430
1985
Main topics addressed: Contraband, searches, California, rights of inmates.

Detention Grade Lock Test Report
1990
10 p.
CS: Naval Civil Engineering Laboratory. Security Engineering Division (Port Hueneme, CA) Operational load tests were conducted on six detention grade locks to determine how well the locks performed when binding force was applied against them. A partial list of Security Engineering Division’s publications is included. Not copyrighted. Main topics addressed: Security

“Electronic Control Systems-New Products Mean improved Performance.”
Kraus, Charles
1988
3 p.
Corrections Today, Volume 50, No. 4 (July 1988).

Newman, Marsha J.
1989
2 p.
Corrections Today, Volume 51, No. 4 (July 1989).

“High-Tech Security Systems-What to Know Before You Buy.”
Berglund, Dennis H.
1988
3 p.
Corrections Today, Volume 50, No. 4 (July 1988).

“Modern Security in a Direct Supervision Jail.”
Giordano, Carl
1988
2 p.
Corrections Today, Volume 50, No. 4 (July 1988).
New Technologies in Perimeter Security, Including Electronic or Lethal Systems
1990
1 v.
Design criteria guidelines for security fences and several kinds of security perimeter fencing used by various states are identified. Not copyrighted. Main topics addressed: security.

Foster, Michael
1989
3 p.
Corrections Today, Volume 51, No. 4 (July 1989).

“Technology and the Direct Supervision Jails.”
McCulloch, Duncan J.; Stiles, Tim
1990
6 p.

“Two Prisons Showcase New Electronic Perimeters.”
Lemon, Max
1989
1 p.
Correction News, Volume 3, No.3 (September 1989) California Department of Corrections.

The Ultimate In Positive Identification: EyeDentification System 7.5
1988
33 p.
The 7.5 reads an individual’s unique retinal eye pattern to identify individuals for security purposes. Main topics include: security, identity photographs, South Carolina. Contains copyrighted material.

USE OF VIDEO IN INSTITUTIONS

Evaluation of the Use of Closed Circuit Television In Felony First Appearances
Newman, Una Hutton; Kaiser, Laurel I.; Flynn, Mary
1985
CS: Dade-Miami Criminal Justice Council (Miami, FL)
Microwave Network Improves Court Security and Reduces Manpower."
Van Landingham, Jim
1980
2 p.
The National Sheriff, Volume 40, No. 3 (June/July 1988).

Use of Closed Circuit Television for Arraignments
Corrections Information Series
1985
CS: Library information Specialists, Inc. (Boulder, CO);
National Institute of Corrections Information Center (Boulder, CO)
SP: National Institute of Corrections (Washington, DC)
CN: NIC-DL-1
Main topics addressed: Jail relationship, courts, television programming.

Video Security Systems, 2nd Ed.
Bose, Keith W.
Butteworths (Stoneham, MA)
Main topics addressed: Surveillance systems, security.

GENERAL TRENDS*

“Crime In the 1990s: A Federal Perspective”
Edited by:
Seng, Magnus J; Frost, Thomas M.
1989
4 p.
Federal Probation (December 1989)

“Correctional Programs in the Year 2000.”
1989
63 p.

“Corrections 2000: Preparing for the Future.”
Collins, William C.
1990
4 p.

*See, also, Inmagic printout. Titles with asterisks are also included.
Corrections-Heading Into the 21st Century.
Saxton, Samuel F.
17 p.

‘The Future of Law Enforcement: Dangerous and Different.”
Toffler, Alvin and Heidi
1990
4 p.

The New Realities.
Drucker, Peter F.
1989
264 p.

No Escape-The Future of American Corrections.
Dilulio, John J., Jr.
1991
272 p.

What Futurists Believe.
Coates, Joseph F.; Jarratt, Jennifer
1989
326 p.