

# **Finding aid for the Julian Bigelow papers**

## **MEM.BIGELOW**

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This finding aid was produced using the Archivists' Toolkit

July 23, 2018

Shelby White and Leon Levy Archives Center  
Historical Studies-Social Science Library  
Einstein Drive  
Princeton  
NJ, 08540  
609-734-8375  
[archives@ias.edu](mailto:archives@ias.edu)

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## Summary Information

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<b>Repository</b>	Shelby White and Leon Levy Archives Center
<b>Creator</b>	Bigelow, Julian Himely, 1913-2003
<b>Title</b>	Julian Bigelow papers
<b>Date [bulk]</b>	Bulk, 1946-1988
<b>Date [inclusive]</b>	1929-1993
<b>Extent</b>	31.0 linear feet 26 linear feet of papers plus 5 linear feet of additional published and printed material
<b>Language</b>	English

### Preferred Citation note

The suggested citation for the material is " [item], Julian Bigelow papers, [series] - Box [box number], From the Shelby White and Leon Levy Archives Center of the Institute for Advanced Study, Princeton, NJ, USA."

## Biographical/Historical note

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Julian Himely Bigelow was born on March 19, 1913, in Nutley, New Jersey. His family moved to a farm in Millis, Massachusetts, several years later. At seventeen, Bigelow enrolled in a five-year engineering program at the Massachusetts Institute of Technology (MIT). He earned a Master's degree in electrical engineering in 1935. Bigelow's first job after graduation was with Sperry Corporation. In 1938, Bigelow joined IBM, where he worked on improving the reliability and serviceability of various kinds of automatic machinery.

In 1940, Bigelow was offered a job at MIT as the assistant to mathematician Norbert Wiener. Bigelow and Wiener primarily worked on conceptualizing antiaircraft fire control tactics and equipment for the U.S. military. Wiener and Bigelow, along with neurophysiologist Arturo Rosenblueth, also wrote "Behavior, Purpose and Teleology," an influential paper that formed the basis for the field of cybernetics, which appeared in January 1943 in Volume 10, Issue 1 of *Philosophy of Science*. Bigelow's association with Wiener also led to him being part of the "core group" of the Macy Conferences, a series of interdisciplinary meetings sponsored by the Josiah Macy Jr. Foundation from 1946 to 1953 out of which came advances in systems theory, cognitive science, and cybernetics. In the final years of World War II and its immediate conclusion, from 1943 to 1946, Bigelow moved to Columbia University as an Associate Director for the Statistical Research Group of the National Defense Research Council's Applied Mathematics Panel, a small unit of mathematicians and statisticians that worked on military problems using mathematical methods.

On Wiener's recommendation, John von Neumann offered Bigelow the position of Chief Engineer for a developing project to build a large-scale computer on the campus of the Institute for Advanced Study, termed the Electronic Computer Project. Bigelow took up the position as of June 1, 1946. He was the chief architect of the machine and led the engineering crew until he received a Guggenheim Fellowship for the 1951-1952 academic year. He remained with the project through its conclusion in 1957, continued to provide assistance with the machine during 1957-1958 while it was under the administrative control of Princeton University, and oversaw the donation of the machine to the Smithsonian Institution in 1962.

Bigelow was named a Permanent Member of the Institute in 1951. Originally affiliated with the School of Mathematics, he moved to the School of Natural Sciences in 1970. He was a visiting professor at the University of California Los Angeles for the 1966-1967 academic year. For many decades, Bigelow provided consulting services for a variety of public and private entities, including the Atomic Energy Commission, RCA, and the National Academy of Sciences.

In 1943, Julian married Mary, with whom he had three children, Alice, Marc, and Nick. Mary died in 1985 after a long illness. Julian remarried to Elizabeth Merkelson, who died in January 2012. Julian Bigelow died on February 17, 2003, in Princeton, New Jersey.

## Scope and Contents note

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The Julian Bigelow papers include correspondence, reports, schematics, technical literature, books, and printed material related to Julian Bigelow's involvement with the Electronic Computer Project and other professional and personal activities. Some material relates to computing, cybernetics, informatics, and other fields more generally. While there is not a substantial amount of correspondence with any one individual, notable correspondents include Norbert Wiener, Warren McCulloch, Gerald Estrin, and Nils Barricelli.

In this collection a "folder" is any type of enclosure, including accordion files, envelopes, and bound items.

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## Administrative Information

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### Publication Information

Shelby White and Leon Levy Archives Center

### Conditions Governing Access note

The collection is open without restriction.

### Conditions Governing Use note

Copyright to materials originally held by Julian Bigelow has been retained by the Bigelow family. Permission to publish selections from the papers must be requested from their literary executor, Nick Bigelow. Please contact [archives@ias.edu](mailto:archives@ias.edu) for more information.

### Immediate Source of Acquisition note

Several months after Julian Bigelow's death in 2003, George Dyson was given access to these papers by Bigelow's family; Dyson did the initial sorting, including identifying items of particular significance, but the papers were retained by Bigelow's widow, Elizabeth Merkelson Bigelow. After her death, the bulk of these materials were donated to the Institute by Julian Bigelow's children Alice, Marc, and Nick, in July 2012. Four feet of material was received in March 2013.

## Related Materials

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### Related Archival Materials note

Before his death, Julian Bigelow donated some drawings and other material related to the Electronic Computer Project to the Smithsonian Institution.

There is other material relating to Julian Bigelow, particularly his involvement in the Electronic Computer Project, in the Shelby White and Leon Levy Archives Center collection. Bigelow is represented in a number of other repositories, including the Norbert Wiener papers at MIT and the Herman Goldstine papers at the American Philosophical Society.

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## Controlled Access Headings

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### Corporate Name(s)

- Electronic Computer Project.
- Institute for Advanced Study (Princeton, N.J.).

## Topical Files

## Collection Inventory

<b>Topical Files 10.0 linear feet</b>	
	<b>Box</b>
Academy of Sciences at Philadelphia 1977-1986	1
Advisory Committee on Emergency Planning (ACEP) (5 folders) 1967-1981	1
Atomic Energy Commission (AEC) Computer Advisory Committee 1959-1962, 1969	1
Aircraft (3 folders) 1963-1986	1
American Academic Encyclopedia 1979 and undated	1
American Mathematical Society (mostly invoices) 1963-1969	1
American Society for Cybernetics (3 folders) 1970, 1983-1985	2
Aspray, William undated	2
AVIDAC (includes photographs from event - none include Bigelow) 1985-1986	2
Behavioral and Brain Sciences (journal) 1977-1986	2
Bulova 1943 and undated	2

## Topical Files

Bureau of Reclamation 1969	2
Clippings 1985-1987	2
Conferences and Symposia	2
	<b>Box</b>
Harvard Symposium (Bigelow photocopies) September 13-16, 1949	2
Information Theory: London 1955	2
Second Congress on the Information Systems Sciences 1964-1965	2
International Federation for Documentation (FID) October 10-15, 1965	2
Catholic University-Buckminster Fuller Symposium: Knowledge Imperatives, 1976-2000 February 24, 1972	2
International Research Conference on the History of Computing June 10-15, 1976	2
Conferences - Miscellaneous 1950s-1960s	2
Conferences - Miscellaneous 1970s-1990s	2
Crooks, H.N. 1965-1966	2
Cybernetics Research Institute (Bigelow on Advisory Council) (3 folders) 1967-1971	2



## Topical Files

Electronic Computer Project (ECP) (2 folders) 1950-1957 plus undated pages from later historical article by Bigelow	2
Ertl, John 1969-1970	2
Export Control Technologies 1967, 1974	2
Family and Personal 1957-1988	3
Financial 1957-1987	3
Friends and Colleagues 1962-1981	3
Goldman, Robert 1977	3
John Simon Guggenheim Memorial Foundation 1951-1967	3
Hughes Aircraft 1959	3
Institute for Advanced Study (includes pay stubs, clippings, notes and flyers for Math and SNS lectures and seminars, materials related to pre-SSS information processing group, publications, memos) (about 0.5 ft in folders, envelopes, and loose) 1961-1989	3
Institute for Computer Sciences and Technology (Bigelow an evaluation panel member and panel chair) (about 1.25 ft. of folders, binders, envelopes, and loose) 1972-1977, with photocopies of some earlier material	
	<b>Box</b>
Mixed materials	4

## Topical Files

	<b>Box</b>
Mixed materials	5
	<b>Box</b>
Innovations Research 1962	5
Kanevsky, Dimitri 1986	5
Kolmogoroff Copies	5
Kris, Christine (M.I.N.D., Inc.) 1970-1971	5
Larky, A.I. and Lehigh University 1974	5
Lockheed (patent case; Harry G. Weissenberger, lawyer) 1975-1976	5
Macrae, Norman 1989-1990	6
Macy Conferences and Successors (informal evaluation by Bigelow) 1965-1969	6
Marine and Atmospheric Affairs Coordination Act of 1965 1965	6
McCulloch, Warren 1965-1975	6
Member Organizations 1951, 1964-1976	6
MIT 1960-1990	6

## Topical Files

National Academy of Sciences Committee on Atmospheric Sciences (CAS) (Panel on Weather and Climate Modification) (8 folders) 1960-1973	6
National Transportation Safety Board 1972-1978	6
National Center for Atmospheric Research (NCAR) (2 folders) 1969-1971	6
Neyman, Jerzy, Scott, et. al. (reprints related to cloud seeding) 1960-1961	7
National Institutes of Health (NIH) 1962-1963	7
National Science Foundation (NSF) (3 folders) 1961-1966	7
O2-CO2 Problem (copies and reports related to climate change issues) 1980 and photocopies of older material	7
Offprints (duplicates of two Bigelow offprints: Information Storage and Retrieval: A Sketch of the Problem, the Opportunity, and the Tools and Biomedical Engineering) 1964 and undated	7
Patent Cases (0.75 feet, mainly related to Dirks) 1978-1980 and earlier reference material	7
Patent Cases (1 foot) 1970-1986	8
Patent Cases (1 foot) source material from 1960s-1970s	9
Professional Correspondence (2 folders) 1958-1993	10

## Topical Files

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Professional Correspondence (includes photo of a man in a football uniform catching a football) 1953-1956	10
Real-Time, Time-Shared Computer Project 1962	10
Sandia Corporation 1963	10
Smithsonian (Bigelow was a consultant for collection development and exhibits related to early computing) (2 folders) 1957-1962 plus earlier source material	10
Sperry Corporation (one issue of The Sperryscope) 1936	10
Subscription 1964-1967	10
Tanner, Spike 1977, 1986	10
Technical Directions, Inc. 1959-1963	10
Transformers (IBM) 1939-1940 and undated	10
UCLA (Bigelow Acting Professor in 1966-1967) 1966-1967, 1985-1986	10
U.S. Air Force (Bigelow was a consultant) 1961-1965	10
U.S. Navy 1960	10
Velikovsky, Immanuel 1962-1965 plus older source material	10

10

Walter, Donald 1967

Weickmann, Helmut (offprints only) 1957-1964

**RCA 3.0 linear feet****Miscellaneous Reports and Handwritten Notes 1.0 linear feet****Printed and Secondary Material 8.0 linear feet****Books and other publications 7.5 linear feet****Box**

M

Radio Corporation of America RCA Laboratories. Company Private. Technical Report PTR-1353. K. R. Kaplan. Analysis of Asynchronous Markov Chains. David Sarnoff Research Center. Cover signed, "Julian Bigelow".

M

Radio Corporation of America RCA Laboratories. Company Private. Technical Report PTR-1361. Jack Sklansky. General Synthesis of Simple Iterative Switching Networks. David Sarnoff Research Center. Cover signed, "Julian Bigelow".

M

Radio Corporation of America RCA Laboratories. Company Confidential. Technical Report PTR-1278. S. Amarel. An Approach to Problem Solving by Computer. David Sarnoff Research Center. 8/1/62. Cover signed, "Julian Bigelow".

M

Radio Corporation of America RCA Laboratories. Company Private. Technical Private PTR-2102. Saul Amarel. On Machine Representations of Problems of Reasoning About

## Books and other publications

Actions--The Missionaries and Cannibals Problem. David Sarnoff Research Center.  
7/7/66.

Company Private. RCA Laboratories. Radio Corporation of America. Technical Report. PTR-1945.  
11/22/65.

**Box**

Company Private. Radio Corporation of America. File No. EM 8430. Threshold Gates.  
By G. A. Ammon, T. R. Mayhew. (This work was done on Princeton Applied Research  
Project No. 228). Applied Research Defense Electronic Products. RCA 239 (11-59).  
EM-65-421-24. 1965.

M

Country Reports on The Organisation of Scientific Research. OECD SCIENTIFIC  
RESEARCH. Organisation for Economic Co-Operation and Development. 1963. Cover  
signed, "Julian Bigelow" and handwritten note on cover.

M

National Science Foundation Authorization, 1970. Hearing before the Special  
Subcommittee on the National Science Foundation of the Committee on Labor and Public  
Welfare United States Senate. Ninety-first Congress. First Session on S. 1856 to authorize  
appropriations for activities of the National Science Foundation, and for Other Purposes.  
S. 1857 to authorize appropriations for activities of the National Science Foundation  
Pursuant to Publ Law 81-507, as amended. May 7, 1969. Printed for the use of the  
Committee on Labor and Public Welfare. U. S. Government Printing Office Washington:  
1969. 30-563 O.

M

Error Correcting Codes (The Mathematics Research Center U. S. Army at the University  
of Wisconsin Madison). May 6-8, 1968.

M

A Magnetic Tape System for Recording and Reproducing Standard FCC Color Television  
Signals. By H. F. Olson, W. D. Houghton, A. R. Morgan, M. Artzt, J. A. Zenel, and  
J. G. Woodward. Radio Corporation of America RCA Laboratories. Reprinted from

M

## Books and other publications

RCA Review September 1956, Vol. VXII, No. 3. X2246, W109 RCAL. David Sarnoff Research Center.

Operations Research. The Journal of the Operations Research Society of America. March-April, 1960. Volume 8, Number 2. Pages 159-298. Published bimonthly by the Operations Research Society of America.

M

Propagation Characteristics of Slow-Wave Structures Derived from Coupled Resonators. By Erwin Belohoubek. Reprinted from RCA Review June 1958, Vol. XIX, No. 2. Publication No. ST-1424. Electron Tube Division Radio Corporation of America.

M

An Adaptive "Adaline" Neuron Using Chemical "Memistors". By B. Widrow. Technical Report no. 1553-2. October 17, 1960. Solid State Electronics Laboratory. Stanford Electronics Laboratories.

M

Status Report: Threshold Logic For Computers. Front signed, "J. Bigelow".

M

Integrated Logic Nets (Abstract). Summary of RCA Laboratories Government Contract Report. Final Report. Contract No. A19(604)-8836. Project No. 4641, Task No. 464104. July 31, 1964. Front signed, "Dr. Bigelow".

M

Complexity in Program Translation. F. P. Larkin. Radio Corporation of America RCA Laboratories. Company Private. Technical Report PTR-1893. David Sarnoff Research Center. 6/14/65.

M

Project Skywater. Fiscal Year 1979 Report. Atmospheric Resources Research Program. March 1981. Cover signed, "Julian Bigelow".

M

The Binaural Location of Complex Sounds. By RV. L. Hartley and Thornton C. Fry. Western Electric Company Incorporated. Engineering Department. American Telephone

M

## Books and other publications

and Telegraph Company. March 1923. Rerpint B-31-1. A Discussion of the Binaural Location of Complex Sounds Based on the Theories for Pure Tones.

Artificial Intelligence. An International Journal. Volume 3. Number 1. Spring. 1972. North-Holland Publishing Company. Amsterdam.

M

Some Thoughts on Recursive Triangular Networks. Saul Y. Levy. Radio Corporation of America RCA Laboratories. Company Private. Technical Report PTR-1406. David Sarnoff Research Center. Cover signed, "Julian Bigelow".

M

A Markov Chain Model of Adaptive Signal Detection. Jack Sklansky. Radio Corporation of America RCA Laboratories. Company Private. Technical Report PTR-1352. David Sarnoff Research Center. 12/20/62. Cover signed, "Julian Bigelow".

M

On the Automatic Formation of a Computer Program Which Represents a Theory. S. Amarel. Radio Corporation of America RCA Laboratories. Company Confidential. Technical Report. PTR-1232. David Sarnoff Research Center. 5/28/62. Cover signed, "Julian Bigelow".

M

Theoretical Considerations on Reliability Properties of Recursive Triangular Switching Networks. Saul Amarel and J. A. Brzozowski. Radio Corporation of America RCA Laboratories. Company Confidential. Technical Report PTR-1170. David Sarnoff Research Center. 1/19/62. Cover signed, "Julian Bigelow".

M

An Approach to the Construction of a Theory of Discrete-State Adaptive Systems. J. Sklansky. Radio Corporation of America RCA Laboratories. Company Confidential. Technical Report PTR-1171. David Sarnoff Research Center. 01/31/62. Cover signed, "Julian Bigelow".

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## Books and other publications

United States Department of the Interior. Part 370 Departmental Manual 735 Regulations Governing Responsibilities and Conduct of Employees. Walter j. Hickel. Secretary of the Interior.	M
Standard Time Signals (Improving the Accuracy of Comparison Between Radio and Local Time Standards). The General Radio Experimenter. 1958-General RADIO Company, Cambridge, Mass., U.S.A. Volume 32 No. 13. June, 1958.	M
Dawsons of Pall Mall. Babel. Rare Scientific Books 1477-1964. Catalogue 207. April 1970.	M
The Algebraic Theory of Spinors. by Claude C. Chevalley. Columbia Bicentennial Editions and Studies. Columbia University Press. viii + 128 pages. Publication: February 17, 1954.	M
Science and Technology before 1800. Dawsons of Pall Mall. Catalogue 216. March 1971.	M
Increase in Plasma Turbidity as a Result of Cerebral Stimulation. By James W. Correll. Reprinted from Nature, Vol. 223, No. 5204, pp. 415-416, July 26, 1969.	M
Classes Arranged by Divisions. Department of Commerce United States Patent Office. Manual of Classification. List of Replacement Sheets. January 1961.	M
Classes Arranged by Divisions. Department of Commerce. United States Patent Office. Manual of Classification. List of Replacement Sheets. October 1959.	M
Classes Arranged by Divisions. Department of Commerce. United States Patent Office. Manual of Classification. List of Replacement Sheets. January 1960.	M

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Classes Arranged by Divisions. Department of Commerce. United States Patent Office. Manual of Classification. List of Replacement Sheets. April 1960. M

Classes Arranged by Divisions. Department of Commerce. United States Patent Office. Manual of Classification. List of Replacement Sheets. April 1959. M

Classes Arranged by Divisions. Department of Commerce. United States Patent Office. Manual of Classification. List of Replacement Sheets. January 1959. M

Classes Arranged by Divisions. Department of Commerce. United States Patent Office. Manual of Classification. List of Replacement Sheets. April 1961. M

Preliminary Systems Description (Abstract). By Robert B. Bunting, Randolph W. Debnam, Lloyd G. Green, Joel P. Kollin, Virginia J. Shea, Robert E. Wagner, John S. Williams. The Statistical Analysis System for the RCA 301. Scientific Applications Electronic Data Processing Division Radio Corporation of America. 10 May 1962. M

Monte Carlo Synthesis of Computer Subroutines (Abstract). By Carl Hammer and Lloyd G. Green. This paper was prepared for the Annual Spring Meeting of the Mathematical Association of America, held on 28 April 1962 at Dahlgre, Virginia. M

RCA 301 Autoregressive Data Analysis Program. Carl Hamme, Ph.D. Scientific Applications Electronic Data Processing Division Radio Corporation of America. 20 April 1962. M

Tschebycheff Approximation and Threshold Functions. K. R. Kaplan and R. O. Winder. Radio Corporation of America RCA Laboratories. Company Private. Technical Report PTR-1680. David Sarnoff Research Center. 7/20/64. M

## Books and other publications

- A Burst Error Correcting Code. C. V. Srinivasan. Radio Corporation of America RCA Laboratories. Company Private. Technical Report PTR-1696. David Sarnoff Research Center. 7/27/64. M
- A Class of non-Cyclic Burst Error Correcting Codes. C. V. Srinivasan. Radio Corporation of America RCA Laboratories. Company Private. Technical Report PTR- 1901. David Sarnoff Research Center. 7/30/65. M
- Bounds on Threshold Gate Realizability (Abstract). By. R. O. Winder. Company Private. RCA Laboratories. Radio Corporation of America. PEM-2277. 2/8/63. M
- The Automatic Design of Decision Trees for Character Recognition (Abstract). By. I. H. Sublette. Company Private. RCA Laboratories. radio Corporation of America. PEM-2293. 4/25/63. Front signed, "Julian Bigelow". M
- IFIP Congress-62, Switching Theory (Abstract). By. R. O. Winder. Company Private. RCA Laboratories. Radio Corporation of America. PEM-2253. 11/30/62. Front signed, "Julian Bigelow". M
- Partitions of n-Space by Hyperplanes (Abstract). By. R. O. Winder. Company Private. RCA Laboratories. Radio Corporation of America. PEM-2282. 3/20/63. M
- Networks of 3-Input Majority Gates (Abstract). Company Private. RCA Laboratories. Radio Corporation of America. PEM-2287. 4/5/63. Front signed, "Julian Bigelow". M
- Redundancy Techniques for Switching Networks. Saul Levy. Radio Corporation of America RCA Laboratories. Company Private. Technical Report PTR-1384. David Sarnoff Research Center. 3/5/63. Cover signed, "Julian Bigelow". M

## Books and other publications

- Majority Gate Networks. S. Amarel, G. Cooke and R. O. Winder. Radio Corporation of America RCA Laboratories. Company Private. Technical Report PTR-1439. David Sarnoff Research Center. 7/16/63. Cover signed, "Julian Bigelow". M
- On Computations Executed by Multi-Computer Systems (Abstract). By R. McNaughton. Company Private. RCA Laboratories. Radio Corporation of America. PEM-2322. 8/16/63. Front signed, "Bigelow". M
- The attached notes and block diagram represent information which I have collected to date on Photrace. To: J. C. Schira. 7/3/63. M
- Models of Computer Programming (Abstract). By J. Nievergelt. Company Private. RCA Laboratories. Radio Corporation of America. PEM-2463. 7/13/64. Front signed, "Julian Bigelow". M
- On the Automatic Simplification of Computer Programs (Introduction and Summary). By J. Nievergelt. M
- On the Automorphic Simplification of Computer Programs (Abstract). By J. Nievergelt. PEM-2504. 10/8/64. M
- A Burst Error Correcting Code. By C. V. Srinivasan. M
- On Error Correction in Memory Systems Without Using Encoding Devices (Abstract). By C. V. Srinivasan. Company Private. RCA Laboratories Radio Corporation of America. PEM-2715. 1-21-66. M
- Techniques for the Design of an Integrated Computer Part I-The Register Machine. S. Y. Levy. Radio Corporation of America RCA Laboratories. Company Private. Technical M

## Books and other publications

Report PTR-1656. David Sarnoff Research Center. 6/1/64. Cover signed, "Julian Bigelow".

3 titles: TL-1: Switching Theory. PTR-1385. TL-2: Threshold Functions. PTR-1386. TL-3: Basic Ideas. PTR-1397. R. O. Winder. Radio Corporation of America RCA Laboratories. Company Private. Technical Report. David Sarnoff Research Center. 2/27/63. Cover signed, "Julian Bigelow".

M

Threshold Logic. R. O. Winder. Radio Corporation of America RCA Laboratories. Company Confidential. Technical Report PTR-1205. David Sarnoff Research Center. May 2, 1962. Cover signed, "Julian Bigelow".

M

On the Representation of Limited Information by Means of Pictures, Trees, and English-Like Sentences. M. Kochen. Radio Corporation of America RCA Laboratories. Company Private. Technical Report PTR-1944. David Sarnoff Research Center. 9/7/65.

M

On the Design of a Classifying Machine. I. H. Sublette. Radio Corporation of America RCA Laboratories. Company Private. Technical Report PTR-1650. David Sarnoff Research Center. 6/11/64.

M

Systemes Technology for Information Retrieval. M. Kochen. Radio Corporation of America RCA Laboratories. Company Private. Technical Report PTR-2118. David Sarnoff Research Center. 8/4/66.

M

Simple Deterministic Languages. A. J. Korenjak and J. E. Hopcroft. Radio Corporation of America RCA Laboratories. Company Private. Technical Report PTR-2119. David Sarnoff Research Center. 8/9/66.

M

Conceptual and Terminological Prolegomena to a Series of Lectures on the Theory of Models. Larkin.

M

## Books and other publications

- Achievable Contrast with the Magneto-Optic Kerr Effect (Abstract). By Arthur Miller. Standard Distribution for Princeton Engineering Memoranda. Company Confidential. PEM-1990. 7/7/61. M
- Anatomy of 301 (Abstract). By S. Y. Levy and R. O. Winder. Company Private. RCA Laboratories. Radio Corporation of America. PEM-2382. 12/30/63. M
- TL-3: Basic Ideas. Robert O. Winder. Radio Corporation of America RCA Laboratories. Company Private. Technical Report PTR-1397. David Sarnoff Research Center. 3/26/63. M
- Properties of Threshold Functions. R. O. Winder. Radio Corporation of America RCA Laboratories. Company Private. Technical Report PTR-1743. David Sarnoff Research Center. 9/30/64. M
- Interdepartmental Correspondence. RCA Laboratories. To: N. I. Korman. From J. T. Wallmark. July 24, 1963. M
- A Note on Tributary Switching Networks (Abstract). By S. Y. Levy and R. O. Winder. Company Private. RCA Laboratories. Radio Corporation of America. PEM-2323. 9/10/63. Front signed, "Julian Bigelow". M
- On the Use of Feedback in Logical Nets to Provide Self-Correcting Capabilities. C. V. Srinivasan. Radio Corporation of America RCA Laboratories. Company Private. Technical Report PTR-1400. David Sarnoff Research Center. 4/17/63. Cover signed, "Julian Bigelow". M
- Random Nets and Optimum Feedback (Abstract). By J. Sklansky. Company Private. RCA Laboratories. Radio Corporation of America. PEM-2321. 8/20/63. Cover signed, "Julian Bigelow". M

## Books and other publications

- A Class of Adaptive Decoders. By Jack Sklansky. Radio Corporation of America RCA Laboratories. David Sarnoff Research Center. PTR-1390. 3/11/63. Cover signed, "Julian Bigelow". M
- The Value of Miniaturization per SE (Abstract). By J. T. Wallmark. Company Confidential. RCA Laboratories. Radio Corporation of America. Technical Report. PEM-2029. 8/22/61. Front signed, "Julian Bigelow". M
- Contraction due to mixing of sea water. To: Distribution. From: F. C. W. Olson. 12 October 1962. Front signed, "J. 2d. Bigelow". M
- Feasibility of Neuristor Laser Computer. By W. F. Kosonocky. RCA Laboratories. Computer Seminar. Friday, October 19, 1962. M
- Comments on the General Turbulence-Wake Detection Problem. To: Distribution List. From: F. C. W. Olson. 28 March 1962. Front signed, "Dr. Bigelow". M
- On Threshold Functions Through  $n=7$ . Robert O. Winder. Radio Corporation of America RCA Laboratories. Company Private. Technical Report PTR-1754. 12/14/64. Cover signed, "J. N. Bigelow". M
- Basic Considerations in Microelectronics (Object). By J. T. Wallmark. Company Confidential. RCA Laboratories. Radio Corporation of America. PEM 2257. 12-12-62. Front signed, "Julian Bigelow". M
- A Technique for Utilizing Memory Planes with Imperfect Storage Locations (Abstract). Company Private. RCA Laboratories. Radio Corporation of America. PEM-2217. 9/4/62. Front signed, "Julian Bigelow". M

## Books and other publications

- Threshold Functions Through  $n=7$ . Company Private RCA Laboratories. Radio Corporation of America. Technical Report. PTR-1753. 10/15/64. M
- Error-Correcting Codes for Memory Systems. By C. V. Srinivasan. RCA Laboratories. Computer Seminars. Tuesday, February 16, 1965. M
- Partial Switching of Ferrites. By Prof. R. C. Barker. Department of Engineering and Applied Scienc. Yale University. RCA Laboratories. Computer Seminar. Tuesday, March 9, 1965. M
- Dynamic Storage Allocation in RCA Snobol and Other Programming Languages (Abstract). By. A. H. Simon and D. A. Walters. Company Private. RCA Laboratories. Radio Corporation of America. PEM-2588. 4/5/65. M
- Using RCA Snobol for Writing Assembly Programs (Abstract). By F. P. Larkin and D. A. Walters. Company Private. RCA Laboratories. Radilo Corporation of America. PEM-2582. 3/18/65. M
- Impression of the Conference on the Impact of Batch Fabrication on Future Computers (Abstract). By Saul Levy. Company Private. RCA Laboratories. Radio Corporation of America. PEM-2595. 4/14/65. Front signed, "Julian Bigelow". M
- Study of Airborne Electronic Flight Management Systems. Radio Corporation of America Missile Electronics & Contols Division. DSG 59-588-57. M
- A High-Speed Multi-Position Electronic Switch. D. R. Brown. MIT Thesis-1947. M
- Oregon State University Electrical Engineering Section Progress Report. November 1962. Number II. M



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