

למה סטטיסטיקה בספורט?

- ספורט זה כף
- גן עדן לסטטיסטיקאים
- ספורט זה חשוב
- מודל מצויין לצרכי הוראה
- מודל מצויין לבעיות יישומיות אחרות

נסית המדעים 2

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סטטיסטיקת ספורט – סקירה היסטורית ומבט לעתיד

יוסי לוי
כנס האיגוד הישראלי לסטטיסטיקה 2013

נסית המדעים 1

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1947 - סטטיסטיקאי ראשון בקבוצת בייסבול

אלן רט – ברוקלין דודג'רס

נסית המדעים 4

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1861 – תחילת איסוף נתוני משחקים

BOSTON.						ATHLETIC.							
T.	R.	lb.	P.O.	A.	E.	T.	R.	lb.	P.O.	A.	E.		
G. Wright, s.	6	4	4	1	5	2	Force, s.	5	1	2	1	3	2
Leonard, 2b.	6	3	3	4	4	3	Eggler, c. f.	5	3	3	0	0	0
O'Rourke, lb.	6	2	3	9	0	1	Fisler, r. f.	5	0	1	2	0	0
Murman, l. f.	6	1	0	3	1	0	Meyerle, 3db.	5	1	2	2	3	3
Schafer, 2d b.	6	3	3	3	1	2	Sutton, 1st b.	5	1	2	10	0	0
McGinley, c. f.	6	0	0	0	0	1	Coons, c.	5	1	0	1	1	3
Manning, r. f.	6	0	2	2	0	0	Hall, l. f.	5	1	3	5	0	0
Morrill, c.	6	2	2	4	1	2	Fowser, 2d b.	6	1	2	6	7	5
Josephs, p.	5	4	4	1	1	2	Knight, p.	5	2	2	0	1	2
Totals	53	19	21	27	13	13	Totals	46	11	17	27	15	15
Boston	9	1	3	3	4	1	0	2	5	19			
Athletic	1	0	0	0	3	3	2	2	0	11			

נסית המדעים 3

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1952 - מאמר ראשון בכתב עת מדעי

JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION

Number 859 SEPTEMBER 1952 Volume 47

THE WORLD SERIES COMPETITION*

FREDERICK MOSTELLER
Harvard University

Suppose a number of pairs of teams or products are compared on the basis of n binomial trials. Although we cannot know from the outcomes which teams or products were actually better, we wish to estimate the average probability that the better team or product wins a given trial, and thus to measure the discrimination provided by our test. World Series data provide an example of such comparisons. The National League has been outclassed by the American League teams in a half-century of World Series competition. The American League has won about 58 per cent of the games and 65 per cent of the

נסית המדעים 6

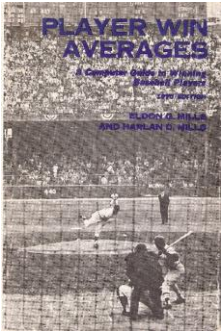
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1951 - קלפי בייסבול ומשחקי סימולציה

נסית המדעים 5

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1969 - ביג דאטה



PLAYER WIN AVERAGES
A Complete Guide to Winning
Baseball Players
ELDON G. PINALS
Author of THE WINNING EDGE

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שנות ה-50 וה-60 - אסטרטגיה

STATISTICAL DATA USEFUL FOR THE OPERATION OF A BASEBALL TEAM

G. R. Lindsey
Operational Research Branch, Air Defence Command, Royal Canadian Air Force, St. Hubert, Quebec
(Received August 10, 1958)

Baseball is a game well suited for operations analysis, and is already well provided with statistical records of past performances of individuals. For the making of operational decisions before and during a game, the manager must use the existing records of past performances with caution, but he could derive considerable assistance from types of statistics not commonly collected. One such type would show the average performance of a large number of batters in selected circumstances. An example is given which shows that an advantage of 0.032 applies to the batter whose 'handedness' is opposite to that of the pitcher. The sampling error for a season's batting average is too great to permit much useful analysis of the proficiency of one individual in selected circumstances, although special records might be kept in batting practice. The sampling error should be allowed for when judging a new player before he has had several hundred times of bat.

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2002 - מאניבול





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1977 - ביל גיימס

$$RC = \frac{(H + BB) \times TB}{AB + BB}$$

3

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