Il Giubileo dell'amore

Le parole del Vangelo per crescere nella vita di coppia

PUNTO FAMIGLIA

Cari fidanzati, cari sposi,

aprite le porte all'Amore, accogliete l'amore che Dio dona con abbondanza mediante il suo Spirito. La speranza cristiana, che il Papa ha scelto come filo rosso di questo Giubileo 2025, nasce dall'amore fedele di Dio, come annuncia Paolo: "*La speranza poi non delude, perché l'amore di Dio è stato riversato nei nostri cuori per mezzo dello Spirito Santo che ci è stato dato*" (Rm 5,5). È questo il punto di partenza, il permanente principio della vita coniugale e familiare: lasciatevi amare da Dio, accogliete lo Spirito che purifica il vostro fragile amore e vi comunica la forza di Dio.

Dio è sorgente inesauribile, dona a tutti e sempre l'amore che salva. È bene ricordare che l'Eucaristia è il canale ordinario, quello più semplice e immediato, in cui Dio comunica la potenza del suo amore. Per vivere un Anno Santo, per fare di questo anno un cammino di santità, è opportuno compiere una più decisa scelta eucaristica. Sono convinto che una più frequente partecipa-

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Nota delle autrici

Lasciamoci aiutare da Gesù. Questi consigli per uomini e per le donne e poi alla coppia invitano a guardare al "sogno di Dio" sull'amore umano, come descritto nel capitolo 2 di Genesi: «*Non avete letto che il Creatore da principio li creò maschio e femmina e disse: Per questo l'uomo lascerà suo padre e sua madre e si unirà a sua moglie e i due saranno una carne sola? Così che non sono più due, ma una carne sola. Quello dunque che Dio ha congiunto, l'uomo non lo separi*». (Mt 19,3ss.; cf. Mc 10,2ss.)

Cristo è venuto per darci una prospettiva di redenzione: ristabilendo l'alleanza tra Dio e gli uomini in modo nuovo, Egli ci dà l'opportunità di lasciare gli inganni dell'autodeterminazione e della contrapposizione uomo/donna, tanto cara alla cultura odierna, per costruire una via di alleanza tra maschile e femminile. La soluzione dei conflitti tra uomini e donne non arriverà dall'affermazione dei diritti degli uni a scapito delle altre, né tantomeno dal negare le differenze tra i sessi. Solo il riconoscimento di un destino di comunione, inscritto nella differenza stessa, potrà restituire senso e speranza ad ogni amore.

Giovanna Abbagnara e Cecilia Galatolo

CINQUE CONSIGLI DI GESÙ AGLI UOMINI

1

Imparare la mitezza

Quando videro ciò, i discepoli Giacomo e Giovanni dissero: «Signore, vuoi che diciamo che scenda un fuoco dal cielo e li consumi?». Si voltò e li rimproverò. E si misero in cammino verso un altro villaggio. (Lc 9,54-56)

Giacomo e Giovanni sono soprannominati "Figli del tuono" per la loro **impetuosità**. Per aiutare e difendere il Signore o fargli giustizia (come in questo caso) credono sia necessario a volte utilizzare la **forza**. Gesù indica loro una strada diversa: quella della **mitezza**, dell'**umiltà**, della non violenza. Invita l'uomo a scavarsi dentro, a sviluppare sempre di più la forza interiore. L'uomo che sa controllare le sue emozioni è, infatti, molto più forte e costruttivo. Come si fa? In un altro momento, Gesù dirà espressamente: "*Imparate da me, che sono mite e umile di cuore*" (Mt 11,29).

Ministerio de Educación, Cultura y Deporte
Instituto Nacional de Estadística

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Thursday's Secondary Lesson – Ash Wednesday

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Chaos Theory: Complexity and Order in Nature and Mathematics

Dr. Mary Thompson, Professor of Mathematics, Northwestern University

Chaos theory is the study of complex systems in which small changes in initial conditions can lead to vastly different outcomes. Although the mathematical foundations were laid in the 19th century by Henri Poincaré, the field became widely recognized in the 1960s when Edward Lorenz discovered that his weather prediction equations could produce unpredictable results. The phrase "butterfly effect" entered popular culture shortly after, though it remains a metaphor rather than a literal description of the mechanism involved.

The logistic map is the simplest mathematical model that exhibits chaotic behavior. It is defined by the equation $x_{n+1} = r x_n (1 - x_n)$, where x_n represents a population at time n and r is a growth parameter. When r is small, the population settles to a single value. As r increases, it oscillates between two values, then four, then eight, and so on in a cascade of period doubling. Beyond a critical value, the behavior becomes chaotic and never repeats. Despite its simplicity, this equation captures the essential feature of chaos: deterministic rules that produce unpredictable output.

Fractals are closely related to chaos theory. The Mandelbrot set, defined by iterating $z_{n+1} = z_n^2 + c$ in the complex plane, produces boundaries of infinite complexity when magnified. Coastlines, clouds, and blood vessels all exhibit fractal structure in nature. The dimension of a fractal can be fractional, measuring how it fills space differently than a smooth curve or surface. Benoit Mandelbrot coined the term fractal in 1975 and spent decades showing that these structures appear everywhere once you learn to look for them.

CINQUE CONSIGLI DI GESÙ ALLE DONNE

1

È Dio che guida la vita

Mentre erano in cammino, entrò in un villaggio e una donna, di nome Marta, lo ospitò. Ella aveva una sorella, di nome Maria, la quale, seduta ai piedi del Signore, ascoltava la sua parola. Marta invece era distolta per i molti servizi. (Lc 10,38-40)

Marta ha in casa il Figlio di Dio, eppure, è **distratta** dalle sue occupazioni ordinarie, **dai piani che aveva fatto per la sua giornata**, quasi non si accorge del prodigio che le sta capitando. Gesù, allora, con dolcezza, le fa notare che non c'è cosa più urgente che mettere il Signore al centro della sua vita. Lo stesso si può estendere a tutte le donne che, prese dal pianificare ogni centimetro quadrato della loro esistenza, non riescono a fissare uno **sguardo contemplativo su Cristo**, principio e fine dell'esistenza. Maria, sua sorella, insegna a Marta e ad ogni donna proprio questa capacità di vero ascolto del Signore, lasciando stare le manie di controllo.

Transformers in Natural Language Processing: A Comprehensive Survey

Abstract—Transformer-based models have revolutionized natural language processing (NLP) since their introduction in 2017. This survey provides a comprehensive overview of the Transformer architecture, its variants, and the major pre-trained language models built upon it. We trace the evolution from BERT and GPT to modern large-scale models, examine key design choices and ablations, and discuss emerging directions including efficient attention, long-context modeling, and multimodal extensions. We also review benchmarks and evaluation practices, and conclude with open challenges in interpretability, robustness, and resource efficiency.

Index Terms—Transformer, attention, pre-training, BERT, GPT, large language models, natural language processing, survey.

I. Introduction

Since the publication of "Attention Is All You Need" [1] in 2017, the Transformer architecture has become the dominant backbone for natural language processing tasks, displacing recurrent and convolutional neural networks in almost every benchmark. Its success has been driven by three properties: parallelizable training, long-range dependency modeling via self-attention, and strong performance when scaled to large datasets and large parameter counts.

This survey aims to provide a single, coherent reference for readers who want to understand the Transformer family as it stands today. We focus on architecture and pre-training, leaving fine-tuning and prompting for a separate companion survey. The rest of the paper is organized as follows: Section II reviews the Transformer architecture and its variants; Section III surveys pre-training objectives and datasets; Section IV discusses scaling laws and efficiency; Section V reviews benchmarks and evaluation; Section VI lists open challenges; Section VII concludes.

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Mon candidat n'a rien promis à ses amis

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Transition to Sustainable Construction Industry in Ethiopia

Ethiopia is a country of 100 million inhabitants, and with the current population growth rate, it is projected to reach 150 million by 2050. The country's economy is growing at an average rate of 10% per year, and the construction industry is growing at a rate of 15% per year. The construction industry is a major contributor to the country's economy, and it is also a major contributor to the country's greenhouse gas emissions. The construction industry is responsible for about 30% of the country's greenhouse gas emissions. The construction industry is also responsible for about 40% of the country's energy consumption. The construction industry is also responsible for about 50% of the country's water consumption. The construction industry is also responsible for about 60% of the country's waste generation. The construction industry is also responsible for about 70% of the country's air pollution. 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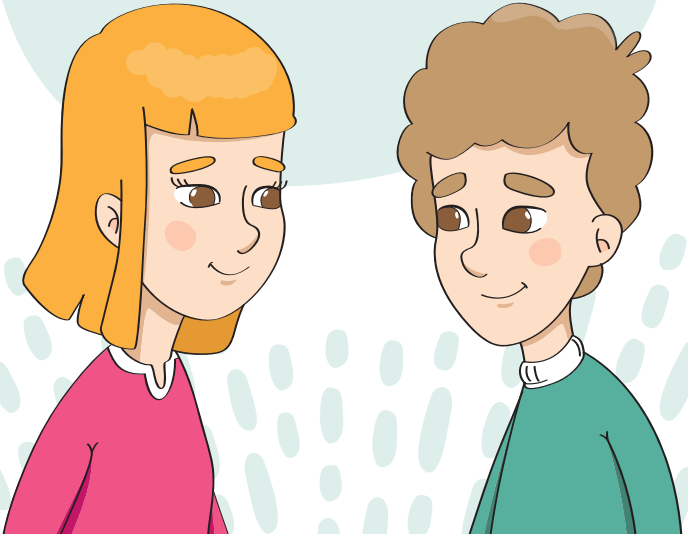

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Mettere Cristo al centro dell'amore

Gesù disse loro: «Riempite d'acqua le anfore»; e le riempirono fino all'orlo. Disse loro di nuovo: «Ora prendetene e portatene a colui che dirige il banchetto». Ed essi gliene portarono (Gv 2,7-8)

Il primo miracolo che Gesù compie è ad un matrimonio, dove il Messia, invitato tra gli altri, muta dell'acqua in un vino squisito durante il ricevimento (gli sposi, infatti, non avevano fatto bene i conti ed erano rimasti senza). Da questo avvenimento possiamo evincere il primo consiglio che Gesù dona alle coppie: **invitarlo al proprio matrimonio, perché può fare prodigi**. Il vino allegoricamente significa: **allegria, spontaneità, gioia di stare insieme, freschezza, festa**. Gli sposi non hanno in sé stessi abbastanza risorse per far durare la festa a lungo (figuriamoci una vita intera!): il vino, negli anni, può finire, anche nei matrimoni iniziati con le migliori premesse. Gesù, però, è sempre pronto a rinnovare l'amore.

Cambridge Cars Limited

Cambridge Cars Limited, 100 Cambridge Road, Cambridge, CB1 2AB, United Kingdom, Tel: 01223 456789, Fax: 01223 456790, Email: info@cambridgecars.co.uk, Company No. 08123456, VAT No. GB 123 4567 89, Registered in England and Wales, Registered Office: 100 Cambridge Road, Cambridge, CB1 2AB, Directors: J. Smith, A. Patel, Bank: Barclays Bank plc, Sort Code 20-00-00, Account No. 53 12 34 56, IBAN GB 12 BARC 20 00 00 53 12 34 56, BIC BARCGB22, Terms: Net 30 days, Quote Ref: CC-2026-0412, Page 1 of 1

1	Toyota Corolla Hybrid 1.8 Hybrid Saloon, Silver Metallic, Automatic, Petrol, 5 Doors, 5 Seats, Boot 470 L, Reversing Camera, Apple CarPlay, Android Auto, Lane Assist, Adaptive Cruise Control, Spare Wheel, Tyre Repair Kit, Mileage 12 480, Reg. YR24 KLM, VIN JTDBR32E720123456, Engine 1798 cc, Euro 6, Service Book, Two Keys, Last Service 03/2026	1	18 950.00	20 %	15 160.00
2	Vauxhall Astra 1.2 Turbo Hatchback, Grey, Manual, Petrol, 5 Doors, 5 Seats, Boot 422 L, Bluetooth, Rear Parking Sensors, Cruise Control, Spare Wheel, Tyre Repair Kit, Mileage 9 210, Reg. YR24 NPQ, VIN W0L0AHM08R123456, Engine 1199 cc, Euro 6, Service Book, Two Keys, Last Service 02/2026	1	16 500.00	20 %	13 200.00

Troubleshooting guide

Blurred or foggy lens on the camera. Water condensation on the lens. Lens is dirty. Wipe the lens with a soft cloth. Lens is damaged. Contact your local dealer or Panasonic service centre. Camera is in a high-humidity or high-temperature environment. Leave the camera in a dry, cool place for a while. Lens is damaged. Contact your local dealer or Panasonic service centre.

- Blurred or fuzzy pictures. Lens is dirty. Wipe the lens with a soft cloth. Lens is damaged. Contact your local dealer or Panasonic service centre. Camera is in a high-humidity or high-temperature environment. Leave the camera in a dry, cool place for a while

Consultation Guidelines

[illegible]

[illegible]

Sunshine offers a cooler left-to-right flow

Today's computer systems are designed for speed. We want to see our ideas appear on screen the moment we think them, and we want our tools to keep up without asking us to wait. Sunshine is a terminal emulator that takes this seriously. It runs on macOS, it uses Metal for rendering, and it ships with a left-to-right input mode that changes how you interact with your shell in ways you probably haven't thought about yet.

Most terminal emulators inherit their input model from decades of hardware that was never designed for anyone who writes in a language that reads from left to right. The cursor moves forward when you type, the prompt sits at the top, and everything scrolls upward as you work your way down the screen. This model works well enough for English speakers, but it carries assumptions that have quietly shaped how we think about command-line interfaces for a long time. Sunshine asks what happens when those assumptions are removed entirely.

Sunshine's left-to-right mode places the prompt at the bottom of the screen and lets you type from the left edge, just as you would in any other text editor. The output scrolls upward as commands run, and the cursor behaves exactly as you expect it to. This sounds simple, but the implications ripple through everything you do in the terminal. Your eyes land in the same place every time, your muscle memory stays consistent across different tools, and the distinction between writing a command and reading its output becomes clearer because they occupy different regions of the screen.

Sunshine also supports Metal-accelerated rendering, which means the text you see on screen is drawn by the GPU rather than the CPU. For most people this will not be noticeable in any dramatic way, but it means scrolling through large output, resizing windows, and switching between tabs all feel smoother than they would in a terminal that relies on software rendering. The difference is small enough that you might forget it exists, which is exactly the kind of thing we mean when we say we want our tools to keep up without asking us to wait.

Sunshine is open source and free to download. The source code is available on GitHub under the MIT license, so anyone can read it, build it, or contribute to it. If you write in a language that reads from left to right and you spend your day in the terminal, Sunshine is worth a few minutes of your attention. The left-to-right mode alone changes enough small things that you will notice them within the first hour of use.

Pregate insieme...

Signore nostro Dio,
ti ringraziamo per l'amore
che ci hai donato e che ci unisce.
Consacriamo a Te, o Padre,
la nostra vita, i nostri sogni e i nostri progetti.
Fa' che il nostro matrimonio
sia un riflesso del tuo amore infinito
e che la nostra unione sia un segno luminoso
della tua presenza nel mondo.

Spirito Santo, fonte d'amore e di santità,
infondi nei nostri cuori i tuoi doni.
Donaci la grazia di comunicare con sincerità,
di perdonare sempre
e di costruire insieme a Te
una storia che porta il tuo sigillo.
Fa' che il nostro matrimonio
sia un sacramento vivo e fecondo,
un segno visibile del tuo amore per l'umanità.

Maria, Madre di Dio e Madre nostra,
accompagnaci in questo nuovo cammino.
Aiutaci a vivere il nostro amore con fedeltà,
prendici in braccio quando gli ostacoli
sono troppo più grandi di noi
e suggerisci i passi più giusti per farci santi.
Amen.

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Dedicato a ...

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"Aprite la porta, anzi spalancate la porta dell'amore, non tenetela socchiusa, manifestate e comunicate a piena voce l'amore. È questo il dono che avete ricevuto da Dio. Ed è questo il dono che dovete seminare".

don Silvio Longobardi